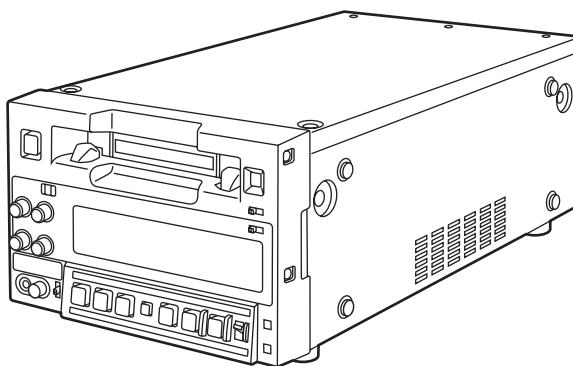


Service Manual

- Sec. 1** *Operating Instructions*
- Sec. 2** *Service Information*
- Sec. 3** *Disassembly Procedures*
- Sec. 4** *Mechanical Adjustments*
- Sec. 5** *Electrical Adjustments*
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- Sec. 9** *Exploded Views & Replacement Parts Lists*



Digital HD Video Cassette Recorder
AJ-HD130DCP



Panasonic

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

Specifications

[GENERAL]

Supply voltage: AC 120 V $\pm 10\%$, 50 – 60 Hz
Power consumption: 97 W
DC supply voltage: 12 V
DC power input current: 6.1 A

Ambient operating temperature:

41°F to 104°F (5°C to 40°C)

Ambient operating humidity:

10 to 85% (no condensation)

Weight:

18.04 lb (8.2 kg)

Dimensions (W×H×D):

8 7/16"×5 1/4"×16 15/16" (214×132×430 mm)

Recording format:

DVCPRO HD

Recording video signals:

1080i/59.94 Hz, 720p/59.94 Hz, selectable

Recording audio signals:

48 kHz, 16 bits, 8 channels

Recording tracks

- Digital video/audio: helical tracks
- Time code: helical tracks (sub-code area)
- Cue signal: 1 track
- Control (CTL): 1 track

Tape speed:

135.28 mm/sec

Recording time:

46 minutes (with AJ-HP46LP)

Tape used:

Metal tape

FF/REW time:

Less than 4 minutes (with AJ-HP46LP)

[VIDEO]

■ Digital video

Sampling frequency:

Y : 74.25/1.001 MHz

P_B/P_R : 37.125/1.001 MHz

Quantizing:

8 bits

Video compression system:

DCT + variable-length code

Video compression rate:

1/6.7

Error correction:

Reed Solomon product code

Video recording bit rate:

100 Mbps

■ Video input connectors

HD serial digital input:

BNC×1,

(compliant with SMPTE 292M/296M standard)

Reference input:

Automatic switching between analog composite and HD tri-level sync (59.94 Hz),

BNC×2 (loop-through), 75 Ω ON/OFF switchable

■ Video output connectors

HD serial digital outputs:

BNC×2

(compliant with SMPTE 292M/296M standard)

SD serial digital output (down-converter):

BNC×1

(compliant with SMPTE 259M-C standard)

Analog composite outputs (down-converter):

BNC×2, VIDEO 1, VIDEO 2 (superimposing ON/OFF)

■ Video output adjustment range

HD serial digital output system phase:

± 0.5 H (± 550 samples, 27 ns steps)

SD serial digital/composite video output system phase:

± 0.5 H (± 429 samples, 74 ns steps)

Composite video output SC phase:

$\pm 180^\circ$

Specifications

[AUDIO]

■ Digital audio

Sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits

Frequency response:

20 Hz to 20 kHz ± 1 dB (at reference level)

Dynamic range:

More than 85 dB

(1 kHz, emphasis OFF, "A" weighted)

Distortion:

Less than 0.1%

(1 kHz, emphasis OFF, reference level)

Crosstalk:

Less than -80 dB

(1 kHz, between two channels)

Wow & flutter:

Negligible

Headroom:

20 dB

■ Audio input connectors

Analog inputs (CH1, CH2, CH3, CH4):

XLR $\times 4$, 600 Ω /high impedance selectable

(default: high impedance),

+4/0/ -20 / -60 dBu selectable (-60 dBu: 3 k Ω)

HD serial digital input:

Compliant with SMPTE 299M standard

(BNC, 75 Ω)

■ Audio output connectors

Analog outputs (CH1, CH2, CH3, CH4):

XLR $\times 4$, low impedance,

+4/0/ -20 dBu selectable,

monitor output L/R selectable for CH3/CH4 output

HD serial digital output:

Compliant with SMPTE 299M standard

(BNC, 75 Ω)

SD serial digital output:

Compliant with SMPTE 272M-A standard

(BNC, 75 Ω)

Headphone output:

M3, 8 Ω , variable level

[OTHER INPUT/OUTPUT CONNECTORS]

Time code input:

BNC $\times 1$, 0.5 to 8 V [p-p], 10 k Ω

Time code output:

BNC $\times 1$, low impedance, 2.0 ± 0.5 V [p-p]

RS-422A input:

D-sub 9 pins, for AJ-A95, RS-422A interface

DC power output:

4-pin socket, DC 12 V, 250 mA, for AJ-A95

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than $5M\Omega$.

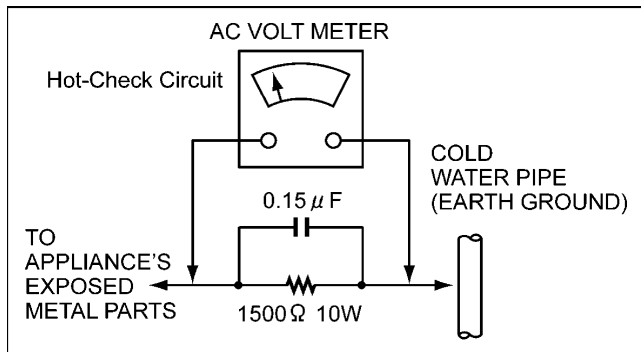


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10W resistor, in parallel with a $0.15\ \mu\text{F}$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
(most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpacked replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing x-radiation.

Note : It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate $2.5kV, \pm 0.15kV$. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an x-radiation possibility, it is essential to use the specified picture tube.

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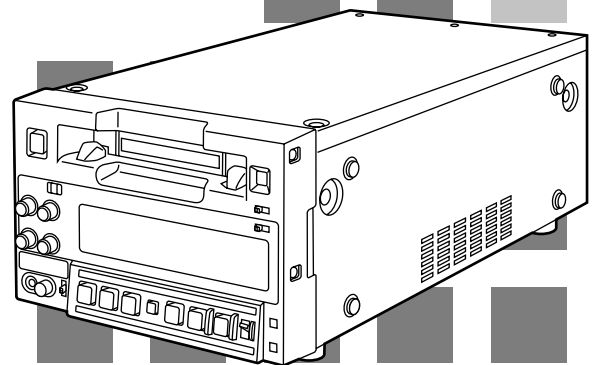
Panasonic



Digital HD Video Cassette Recorder

AJ-HD130DCP

Operating Instructions



IMPORTANT

“Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws.”



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

■ THIS APPARATUS MUST BE EARTHED

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or in another confined space in order to keep well ventilated condition. Ensure that curtains and any other materials do not obstruct the ventilation condition to prevent risk of electric shock or fire hazard due to overheating.

 indicates safety information.

- Do not insert fingers or any objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the recorder when not in use.
- Do not block the ventilation slots of the unit.

- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Color or Black & White recording.
- Do not attempt to disassemble the recorder. There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the recorder examined for possible damage.
- Refer any needed servicing to authorized service personnel.

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Introduction

This DVCPRO HD format HD digital VTR uses 1/4" wide small cassette tapes to record and play back interlace HD signals (1080i/59.94 Hz) and progressive HD signals (720p/59.94 Hz).

It contains built-in down-converter outputs as a standard feature to provide interfacing with existing SD (standard definition) systems by means of HD-SD conversion.

The deterioration in the picture and sound quality which accompanies dubbing is significantly reduced by this high picture quality VTR which incorporates high-efficiency digital compression technology.

The VTR has a compact and lightweight design which enables it to be carried around or installed in a rack with ease.

The user performs the equipment settings interactively while viewing the on-screen menus on the TV monitor.

Features

Compact size and light weight

The VTR has a width of 8 ⁷/₁₆" (214 mm), a height of 5 ¹/₄" (132 mm) and a depth of 16 ¹⁵/₁₆" (430 mm), and it weighs 18.04 lb (8.2 kg). It comes with grips which make it easy and convenient to carry it.

Efficient installation in a rack

The width of the VTR is half the standard 19" dimension, and its height is equivalent to 3U. This makes its installation in a rack twice as efficient as in the past for greater economy.

Up to 46 minutes of recording

The VTR uses only 1/4" wide L-size cassette tapes (max. 46 minutes).

<Note>

Do not use tapes other than DVCPRO HD L-size cassettes (max. 46 minutes).

High picture quality

The VTR achieves a high picture quality by means of 4:2:2 HD component signal recording conducted at a rate which is four times faster (100 Mbps) than the existing DVCPRO format.

Switching between 1080i and 720p systems

By switching to the matching video signal input system (1080i/59.94 Hz or 720p/59.94 Hz) in the setup menu settings, the VTR can record and play back signals in either signal system.

SD down-converter

The VTR comes with a built-in SD down-converter as a standard feature. This enables SD SDI signals or analog composite signals to be output at the same time as HD SDI signals are output, and this makes it possible to view the signals on the SD monitor.

AD/DC operation

The VTR operates on both AC 120 V and DC 12 V power.

Frame-to-frame continuity function

By using the REC button and PAUSE button in combination, the auto back function is activated so that the images are joined together smoothly, without any breaks.

On-screen menu settings

The highly individualized function settings can be performed on-screen.

Time code

The VTR is equipped with a built-in TCG (time code generator)/TCR (time code reader). An external time code can also be input, thereby enabling regeneration to the external time code.

Multi-functional interfaces

● Serial digital input/output

The VTR has HD component serial interface input/output facilities so that the HD component video signals and digital audio signals of 8 channels can be interfaced using a single BNC connector. (SMPTE 292M/296M/299M)

It also contains a built-in SD down-converter as a standard feature so that SD component serial signals can also be output.

(SMPTE 259M-C, 272M-A)

● Analog video output

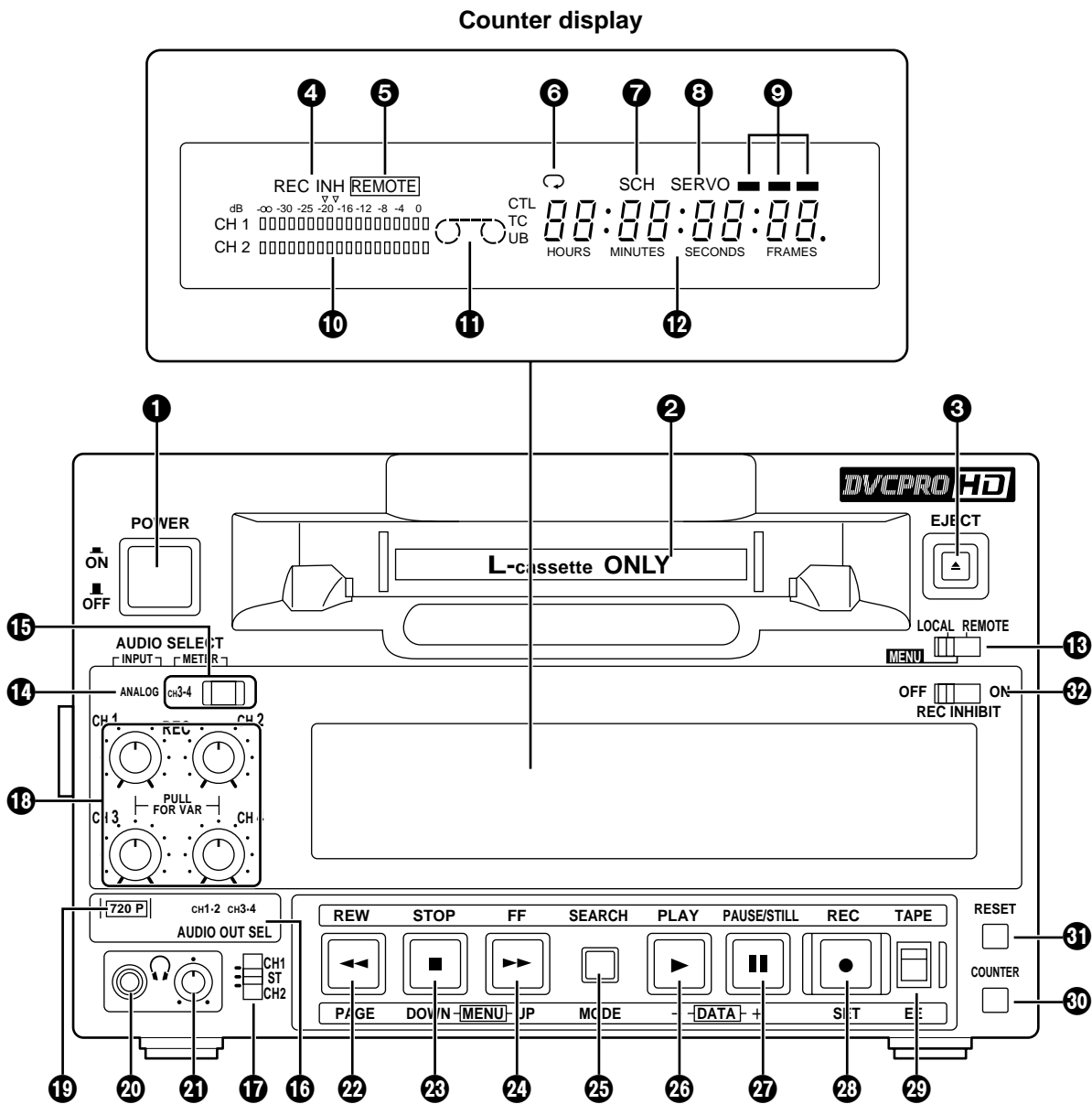
Also provided as a standard feature is a built-in analog composite down-converter to enable monitoring on an SD monitor.

● 9-pin remote control connector

This connector enables operations to be performed from the external remote controller (AJ-A95, optional accessory).

Parts and Their Functions

Front panel



Parts and Their Functions

Front panel

❶ POWER switch

❷ Cassette loading slot

Align the cassette with the center of the loading slot, and push it gently inside. The cassette is loaded automatically.

<Note>

Do not insert tapes other than DVCPRO HD L-size cassettes.

❸ EJECT button

Press this to unload the tape which is then ejected automatically several seconds later.

The display is reset when the CTL display is shown on the counter display.

❹ REC and REC INH lamps

REC : This lights while recording is in progress.

REC INH : This lights when the cassette is in the accidental erasure prevention status. It also lights when the REC INHIBIT switch ❷ is at the ON position. Nothing can be recorded when this lamp is lit.

❺ REMOTE lamp

This lights when the LOCAL/MENU/REMOTE switch ❸ is set to the REMOTE position.

❻ REPEAT lamp

This lights during repeat playback.

<Note>

The lamp flashes and repeat playback is not performed if the counter display mode which was set using setup menu item No.161 (BGN PRESET) or No.162 (END PRESET) and the counter display mode in which the repeat playback is to be performed do not match.

❼ SCH lamp

This lights when the subcarrier phase of the SD signals which have been supplied to the HD/SD REF VIDEO IN connectors is within the specified range.

❽ SERVO lamp

This lights when the drum servo and capstan servo lock.

❾ Channel condition lamps

These light in accordance with the error rate status. (Green → blue → red)

Green : This lights when the error rates for the video and audio playback signals are satisfactory.

Blue : This lights when the error rate for either the video or audio playback signals has deteriorated. The playback pictures remain normal even when the lamp lights.

Red : This lights when either the video or audio playback signals have been corrected or interpolated.


❿ Level meter


This indicates the audio signal levels.


The input level of the audio signals is displayed during recording and when the E-E status is selected; their output level is displayed during playback.


⓫ Cassette insertion/tape travel display lamp

This lights when a cassette has been inserted into the VTR.

 : When a tape has been inserted and the STANDBY ON mode is established.

 : When a tape has been inserted and the STANDBY OFF (half loading) mode is established.

 : While the tape is traveling, the segment display moves as the tape runs.

 : When the fan has stopped, the "○" at the stopped side flashes.

⓬ Counter display

The TC or CTL count, user's bit, remaining tape and total tape length as well as messages and other on-screen information are indicated on this display.

While the unit is running on DC power, the display flashes to signal a warning when the voltage has dropped.

The power is automatically turned off when the voltage drops to 10.6 V or so.

CTL, TC and UB lamps

The corresponding lamp flashes when the TC or UB information cannot be read during playback.

It lights when the information can be read correctly.

Parts and Their Functions

Front panel

⑬ LOCAL/MENU/REMOTE switch

This is set when performing menu settings or controlling the VTR from an external device.

LOCAL : When the VTR is to be controlled using the controls on its operation panel.

MENU : When on-screen menu items are to be set.

REMOTE: When VTR is to be controlled using an external remote controller (AJ-A95).

⑭ ANALOG lamp

This lights when “ANALOG” has been selected as the setup menu item No.700 setting for the audio input signals.

<Note>

When analog signals are input, they are recorded on the tape's audio tracks listed below depending on the channel to which they are input.

CH1 input ➡ CH1 and CH5 tracks

CH2 input ➡ CH2 and CH6 tracks

CH3 input ➡ CH3 and CH7 tracks

CH4 input ➡ CH4 and CH8 tracks

⑮ METER button and lamp (CH3•4)

Each time the METER button is pressed, what is displayed on the level meter is switched from the CH1/CH2 levels to the CH3/CH4 levels or vice versa.

The CH3•4 lamp goes off when the CH1/CH2 levels are displayed.

<Note>

The METER button works when “LINE” has been selected as the setup menu item No.780 setting for the analog audio output connectors.

⑯ Audio output lamps (CH1•2, CH3•4)

These lamps are used to indicate the audio channels whose signals are being output.

⑰ Audio monitor selector switch

This is used to select the audio monitor output or headphone output channel.

Reference: Audio output combinations using setup menu items and front panel switches

Setup menu item			Front panel				Rear panel AUDIO OUT connectors								
No.780 AUD OUT SEL	No.770 MONITOR MIX	No.771 H.PHONE MIX	Audio monitor selector switch ⑰	Audio output lamps ⑱	METER lamp ⑮	Headphone output	CH1	CH2	CH3/L	CH4/R					
LINE	———	———	CH1	<div>CH1•2</div> <div>CH3•4</div>	Off	L=R (CH1)	CH1	CH2	CH3	CH4					
		<div>CH3•4</div>	L=R (CH3)												
		Off	L=CH1/R=CH2												
		<div>CH3•4</div>	L=CH3/R=CH4												
		Off	L=R (CH1+2)												
		<div>CH3•4</div>	L=R (CH3+4)												
		Off	L=R (CH2)												
		<div>CH3•4</div>	L=R (CH4)												
CH1/2	———	———	CH1	<div>CH1•2</div>	Off	L=R (CH1)	CH1	CH2	L=CH1	R=CH1					
	STEREO	STEREO	ST			L=CH1/R=CH2			L=CH1	R=CH2					
		CH1+2				L=R (CH1+2)			L=CH1+2	R=CH1+2					
		STEREO				L=CH1/R=CH2									
	CH1+2	L=R (CH1+2)													
	———	———	CH2			L=R (CH2)			L=CH2	R=CH2					
	CH3/4	———	———			CH1			<div>CH3•4</div>	<div>CH3•4</div>	L=R (CH3)	CH3	CH4	L=CH3	R=CH3
		STEREO	STEREO			ST					L=CH3/R=CH4			L=CH3	R=CH4
CH1+2			L=R (CH3+4)	L=CH3+4	R=CH3+4										
STEREO			L=CH3/R=CH4												
CH1+2		L=R (CH3+4)													
———		———	CH2	L=R (CH4)	L=CH4	R=CH4									

Parts and Their Functions

Front panel

18 Analog audio signal recording level controls

These are used to adjust the recording levels of the CH1, CH2, CH3 and C4 analog audio signals.

These are pull-to-adjust controls: they can be adjusted at their pulled-up positions. When they are at their pushed-down positions, the signals are recorded at their initial levels.

<Note>

These controls cannot be used to adjust the levels of the HD digital component audio signals.

19 720p lamp

This lights when the 720p/59.94 Hz system has been selected or its signals are being played back.

20 Headphone jack

When stereo headphones are connected to this jack, the sound being recording or played back can be monitored by headphones.

21 Volume control

This is used to control the volume of sound heard through the headphones.

22 REW button

When this is pressed, the tape is rewind. When the TAPE/EE switch 29 is set to TAPE, the playback images can be monitored.

When the button is pressed in a search mode (search still, FWD search, FWD search still or REV search still), the search is conducted in the reverse direction (REV search). The tape is reviewed at the speed set by setup menu item No.150. (See page 14)

When the button is pressed in a slow mode (slow still, FWD slow or FWD slow still), the tape is played back at the REV linear 0.3× speed. (See page 15)

23 STOP button

When this is pressed, the tape stops traveling, and still pictures can be monitored if the TAPE/EE switch 29 has been set to TAPE.

The drum continues to rotate even in the stop mode, and the tape remains wrapped tightly around the drum.

When the stop mode continues longer than the allotted time, the VTR is automatically set to the standby OFF (half loading) mode in order to protect the tape.

The stop mode is established immediately after a cassette is inserted into the VTR.

With still pictures, noise may appear on the monitor: this is normal and not indicative of a problem.

24 FF button

When this is pressed, the tape is fast forwarded. When the TAPE/EE switch 29 is set to TAPE, the playback images can be monitored.

When the button is pressed in a search mode (search still, REV search, REV search still or FWD search still), the search is conducted in the forward direction (FWD search). The tape is cued at the speed set by setup menu item No.150. (See page 14)

When the button is pressed in a slow mode (slow still, REV slow or REV slow still), the tape is played back at the FWD linear 0.3× speed. (See page 15)

25 SEARCH button

When this is pressed, the VTR is set to the search mode or slow mode. (See pages 14 and 15)

26 PLAY button

When this is pressed, playback is started. When it is pressed together with the REC button, recording is started.

27 PAUSE/STILL button

When this is pressed during recording, the recording is temporarily stopped; when it is pressed again, the recording is resumed.

When it is pressed during playback, the VTR is set to the still picture mode; when it is pressed again, playback is resumed.

When it is pressed during a FWD or REV search, the search is temporarily stopped (FWD or REV search still); when it is pressed again, the FWD or REV search is resumed.

When it is pressed during a FWD or REV slow operation, the operation is temporarily stopped (FWD or REV slow still); when it is pressed again, the FWD or REV slow operation is resumed.

A "FWD or REV slow" operation denotes linear 0.3× speed playback.

When the tape is temporarily stopped, noise may appear on the monitor: this is normal and not indicative of a problem. (See page 15)

28 REC button

When this is pressed together with the PLAY button, recording is started. When it is pressed while the tape is stopped or being ejected, the input video signals or audio signals can be checked even if the TAPE/EE switch is at the TAPE position.

The value of the time code generator can also be checked. (REC CHECK mode)

When the STOP button or any other function button is pressed, the REC CHECK mode will be released.

Parts and Their Functions

Front panel

29 TAPE/EE switch

This is used to select the signals to be output during stop, fast forwarding or rewinding.

TAPE : The signals played back from the tape are output.

EE : The HD SDI signals are output as the video signals, and the signals selected by setup menu item No.700 are output as the audio signals.

<Note>

While the switch setting is being changed, the picture and sound may be disturbed.

30 COUNTER button

This is used to select what appears on the counter display. Each time it is pressed, what is to appear on the display changes in the following sequence:

CTL ➡ TC ➡ UB ➡ r ➡ CTL.

CTL: The tape timer (control signal) is displayed.

TC : The time code is displayed.

UB : The user's bit is displayed.

r : The remaining tape and total tape length are displayed in minute increments.

Example: [r30-46]

Remaining tape: 30 minutes; total tape length: 46 minutes

31 RESET button

When this is pressed in the CTL mode, the counter display is set to 0 (reset).

32 REC INHIBIT switch

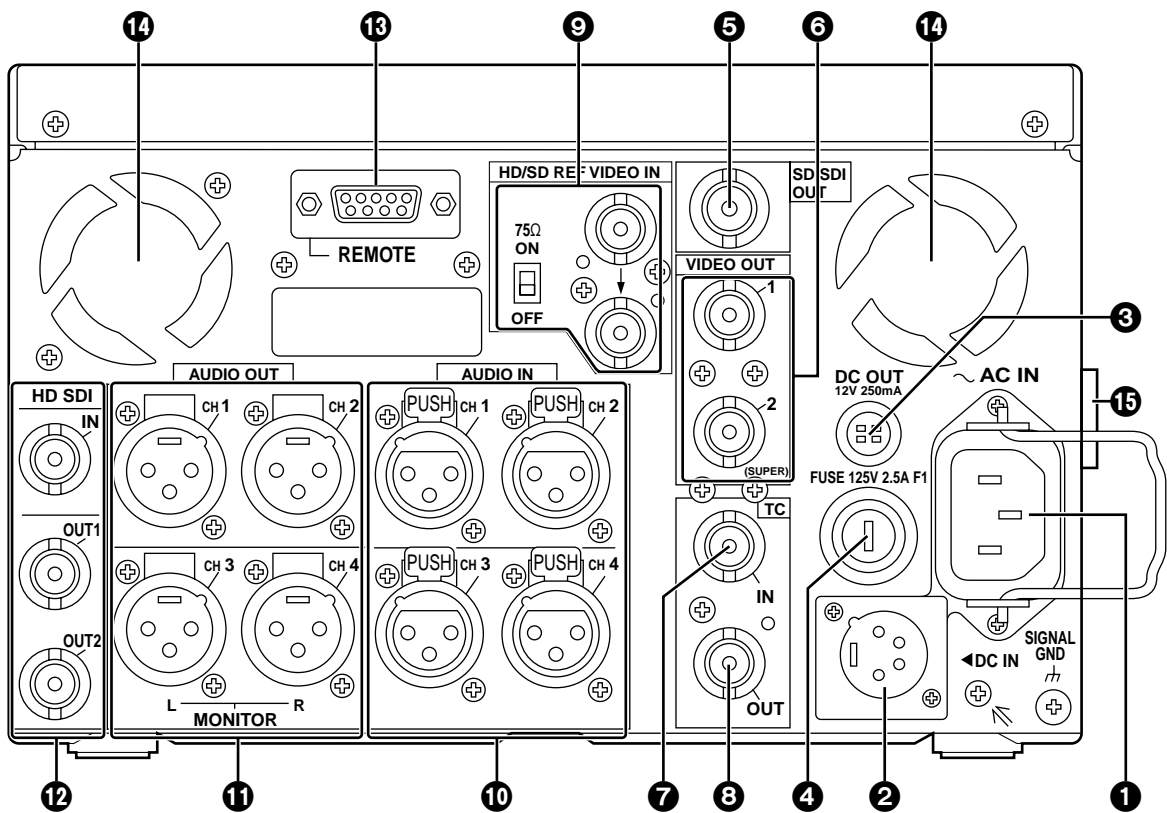
This is used to permit or inhibit recording on the cassette tape.

ON : Recording on the cassette tape is inhibited. The REC INHIBIT lamp on the display lights.

OFF: Recording on the cassette tape is permitted provided that the cassette's accidental erasure prevention tab is set to the recording enable status.

Parts and Their Functions

Rear panel

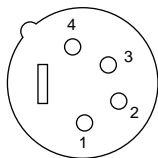


1 AC IN socket

The AC power supply is connected to this socket using the accessory power cord. AC power takes priority if both AC power and DC power have been connected.

2 DC IN socket

This is the input socket of the DC 12 V power supply. Use the optional AC adapter (AJ-B75 or AJ-B95). The VTR's power is automatically turned off when the voltage drops to 10.6 V or so. It may take some time for the voltage level to be restored even after the supply voltage has recovered. AC power takes priority if both AC power and DC power have been connected.



Pin No.	Signal
1	Ground
2	—
3	—
4	+12 V

3 DC OUT socket

This is the DC 12 V output socket. Power is supplied from here to the external remote controller (AJ-A95). The DC power cable is packed with the AJ-A95.



Pin No.	Signal
1	Ground
2	—
3	—
4	+12 V

4 Fuse holder

This houses a 2.5 A fuse.

5 SD SDI OUT connector

This is the down-conversion output connector for the digital component audio and video signals complying with the SMPTE 259M-C or 272M-A standard.

Parts and Their Functions

Rear panel

⑥ VIDEO OUT (1, 2) connectors

These are the down-conversion output connectors for the analog composite video signals.

Video signals with embedded superimposed text can be output from the VIDEO OUT2 connector.

Superimposed text embedding can be selected using setup menu item No.005.

⑦ TC IN connector

This is used for recording the external time code onto the tape.

⑧ TC OUT connector

During playback, the playback time code is output from this connector; during recording, the time code generated by the internal time code generator is output.

⑨ HD/SD REF VIDEO IN connectors and 75 Ω termination switch

These are the input connectors for the HD/SD reference video signals. For termination, set the switch to ON.

<Notes>

- Input a tri-level sync signal with both positive and negative polarities when using these connectors for the HD reference. Input a signal that matches the input signals or tape format.
- Input a composite video signal complying with RS-170A or a black burst signal when using these connectors for the SD reference.

⑩ AUDIO IN connectors (CH1, CH2, CH3, CH4)

These are the input connectors for the analog audio signals.

⑪ AUDIO OUT/MONITOR connectors (CH1, CH2, CH3, CH4)

These are the output connectors for the analog audio signals.

The CH3 and CH4 connectors are also used as the audio monitor output connectors (left channel, right channel). (See page 7)

⑫ HD SDI IN, OUT connectors

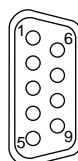
These are the input and output connectors of the digital component audio and video signals complying with the SMPTE 292M, 296M or 299M standard.

⑬ REMOTE CONTROL connector

An external remote controller (AJ-A95, optional accessory) can be connected here to enable the VTR to be operated by remote control.

<Notes>

- Set the LOCAL/MENU/REMOTE switch to the REMOTE position.
- This connector complies with the RS-422A interface standard but the functions related to editing do not work.



Pin No.	Signal
1	Frame Ground
2	Transmit A
3	Receive B
4	Receive Common
5	—
6	Transmit Common
7	Transmit B
8	Receive A
9	Frame Ground

⑭ Fan motor

This is for cooling the VTR.

⑮ Grip

Grips are provided on the side. These grips notwithstanding, the VTR should be installed on a level surface when it is to be operated.

Operation

Turning on the power and inserting the cassette

Before operating the VTR, check that the equipment has been connected correctly.

The VTR must be installed on a level surface for operation.

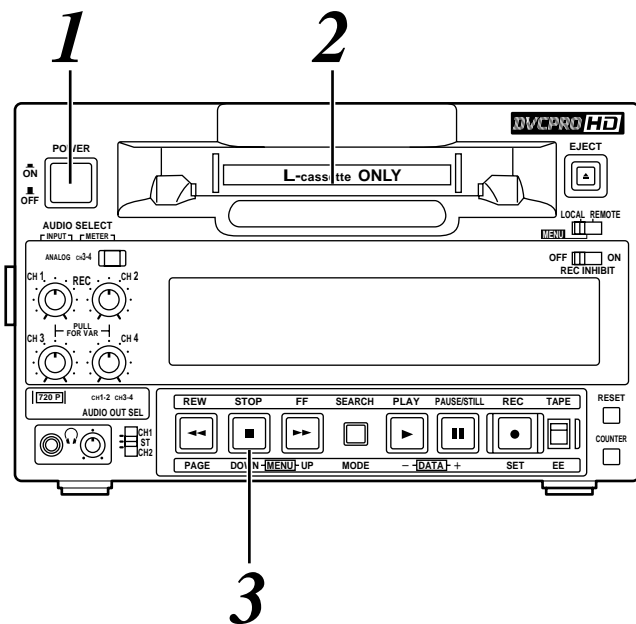
1 Turn on the power.

2 Insert the cassette tape.

Insert the tape into its prescribed position without forcing it into place.

3 Check that the STOP lamp has lighted.

When the tape is inserted, the cylinder starts rotating automatically, the tape is loaded, and the VTR is set to the STOP mode.



STOP mode

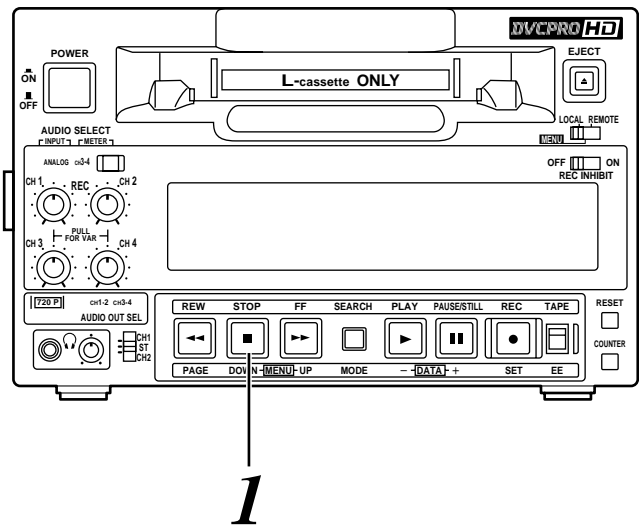
1 Press the STOP button to set the VTR to the STOP mode.

The STOP button lights, and the tape stops traveling.

- When the time set by setup menu item No.400 (STILL TIMER) has elapsed, the tape protection mode is established in order to protect the tape. When the STOP, REW, FF or PLAY button is pressed, the VTR is set to the corresponding mode.

<Caution concerning STILL TIMER setting>

The cumulative standby time in the same places on the tape lengthens when the same parts of the same tape are used repeatedly. To protect the tape, make the standby time in the same place as short as possible.



<Note>

When "ON" has been selected as the setup menu item No.104 setting, the STOP button will flash if the reference video signal is not input.

Recording

1 Set the cassette's accidental erasure prevention tab to the recording enable status, and insert the tape.

2 Press the STOP button to set the VTR to the stop mode.

3 **1. Selecting the input audio signals**

- 1) Connect the signals which are to be recorded.
- 2) Select the audio input signals using setup menu item No.700.

<Note>

For video signals, only HD SDI signals can be input.

2. Adjusting the analog audio level

Adjust the level of the audio input signals when analog audio signals have been selected as the audio input signals.

The audio signals are recorded at the appropriate level while the audio recording level controls remain pushed in.

<Note>

The recording level cannot be adjusted when HD SDI signals have been selected for the audio input signals.

4 Press the PLAY button while holding down the REC button.

The REC and PLAY lamps light, and recording is started.

When "ALL" has been selected as the setup menu item No.154 (AUTO BACK) setting, the tape is rewound for several seconds from the place where the REC and PLAY buttons were pressed and then, after a run-up, recording is started from the place where the REC and PLAY buttons were pressed. This ensures a smooth continuity from one image frame to the next.

5 To end the recording, press the STOP button.

The recording ends, and the VTR is set to the stop mode.

<Note>

During recording, check that the SERVO lamp is lighted. If it is flashing or off, the images will be subject to disturbances when they are played back.

Rec pause/recording (frame-to-frame continuity)

1 Press the PAUSE/STILL button while the cassette tape is playing.

2 Press the REC button to set the VTR to the REC PAUSE mode.

The monitor display is now switched to the E-E screen.

When "REC-P" or "ALL" has been selected as the setup menu item No.154 (AUTO BACK), the tape is rewound for several seconds from the place where the PAUSE/STILL button was pressed.

3 Press the PAUSE/STILL button to start the recording.

The tape runs up to the place where the PAUSE/STILL button was pressed in step **1**, and recording is started.

<Note>

The E-E screen is now displayed.

4 Press the PAUSE/STILL button again to temporarily stop the recording.

When "REC-P" or "ALL" has been selected as the setup menu item No.154 (AUTO BACK), the tape is rewound for several seconds from the place where the PAUSE/STILL button was pressed, and then it is temporarily stopped.

5 Frame-to-frame continuity can be provided by repeating steps **3** and **4**.

Operation

Playback

1 Insert the cassette tape.

2 Press the **PLAY** button.
Normal playback is started.

3 To end playback, press the **STOP** button.
The VTR is set to the stop mode.

<Notes>

- During playback, check that the SERVO lamp is lighted. If it is flashing or off, the images will be subject to disturbances when they are played back.
- The image will be disturbed for an instant when playback is initiated.

Cue (fast forward playback)/ review (reverse playback)

When the FF or REW button is pressed in a search mode (search still, FWD search, REV search, FWD search still or REV search still), the tape is cued or reviewed at the speed set by setup menu item No.150.

When the SEARCH button is pressed in the FF or REW mode, the tape decelerates to the speed set by setup menu item No.150, and the tape is cued or reviewed.

When the PAUSE/STILL button is pressed during cue or review, the tape is temporarily stopped. When it is pressed again, the cue or review is resumed.

VTR operating mode	Button pressed	Next VTR operation
Play or stop	SEARCH	Search still
	FF or REW	Fast forward or rewind
Fast forward	PLAY or STOP	Play or stop
	SEARCH	Forward search (fast forward playback)
Rewind	PLAY or STOP	Play or stop
	SEARCH	Reverse search (reverse playback)
Search still	PLAY or STOP	Play or stop
	FF	Forward search (fast forward playback)
	REW	Reverse search (reverse playback)
Forward search (fast forward playback)	SEARCH	Fast forward
	REW	Reverse search (reverse playback)
	PAUSE/STILL	Forward search still
Reverse search (reverse playback)	SEARCH	Rewind
	FF	Forward search (fast forward playback)
	PAUSE/STILL	Reverse search still
Forward search still	PAUSE/STILL, SEARCH or FF	Forward search (fast forward playback)
	REW	Reverse search (reverse playback)
Reverse search still	PAUSE/STILL, SEARCH or REW	Reverse search (reverse playback)
	FF	Forward search (fast forward playback)
All modes	PLAY	Play
	STOP	Stop

Still-picture playback

Press the PAUSE/STILL button during playback.
When it is pressed again, normal playback is restored.

<Notes>

- No sound is heard during still-picture playback.
- Noise may appear on the still pictures.

Linear 0.3× speed playback

When the SEARCH button is pressed during still-picture playback (PLAY PAUSE), the VTR is set to the slow still mode.

When the FF or REW button is now pressed in this mode, the VTR is set to the linear 0.3× speed playback mode.

When the PAUSE/STILL button is pressed during linear 0.3× speed playback, the tape is temporarily stopped.

When the PAUSE/STILL button is pressed again, linear 0.3× speed playback is resumed.

Variable-speed playback

(when the AJ-A95 is connected)

When the AJ-A95 (optional accessory) is connected to the REMOTE connector, variable-speed playback can be performed by operating the search dial on the AJ-A95.

<Notes>

- Noise may appear on the screen at any playback speed other than 1× (normal speed).
- During variable-speed playback, the sound recorded on the analog cue track is played back.

VTR operating mode	Button pressed	Next VTR operation
Play	PAUSE/STILL	Play pause
Play pause	PAUSE/STILL or PLAY	Play
	SEARCH	Slow still
Slow still	PLAY	Play
	FF	Forward slow
	REW	Reverse slow
Forward slow	REW	Reverse slow
	SEARCH or PAUSE/STILL	Forward slow still
Reverse slow	FF	Forward slow
	SEARCH or PAUSE/STILL	Reverse slow still
Forward slow still	PAUSE/STILL, SEARCH or FF	Forward slow
	REW	Reverse slow
Reverse slow still	PAUSE/STILL, SEARCH or REW	Reverse slow
	FF	Forward slow
All modes	PLAY	Play
	STOP	Stop
All modes	STOP → FF	Fast forward
	STOP → REW	Rewind

Repeat playback

Setting the BEGIN point and END point

1 Set the VTR to the menu mode.
(By setting the LOCAL/MENU/REMOTE switch to the MENU position.)

2 Select setup menu item No.161 (BGN PRESET) or No.162 (END PRESET), and press the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button).

<Note>

A setting or no setting can be selected by operating the DATA+ and DATA- buttons.

“--:--:--” appears on the display with no setting. When repeat playback is performed in this status, the beginning of the tape serves as the BEGIN point and its end serves as the END point.

3 Use the COUNTER button to select TC or CTL.
<Note>

The display is reset to 00:00:00:00 when the RESET button is pressed.

4 Select the digit (indicated by the flashing display) to be changed using the UP button (FF button) or DOWN button (STOP button).

The frame digits cannot be selected. “00” is displayed for the frame at all times.

5 The value is changed by the DATA+ button (PAUSE/STILL button) and DATA- button (PLAY button).

6 Upon completion of the setting, press the SET button (REC button).

The setting is now stored in the memory.

<Note>

If the MODE button (SEARCH button) is pressed without pressing the SET button upon completion of the setting, the setting will not be stored in the memory, and the status existing prior to the setting will be restored.

7 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

Setting the repeat playback mode

1 Set the VTR to the menu mode.
(By setting the LOCAL/MENU/REMOTE switch to the MENU position.)

2 Select setup menu item No.160 (MEMORY MODE), and select the repeat playback mode.

Setting	Operation
OFF	Normal operation
M-STOP	The tape stops near the BEGIN point when it is fast forwarded or rewind.
REPT1	When the tape is played back to the END point, it is rewound to the BEGIN point where it stops.
CONT	When the tape is played back to the END point, it is rewound to the BEGIN point and played back again, and this process is repeated.

3 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Notes>

- The images will deteriorate when the same tape is played back in the repeat playback mode over and over again. After about 100 playback operations, replace the tape with a new one.
- The output image which appears when the tape returns to the BEGIN point in the repeat playback mode can be set using setup menu item No.163 (REPT MODE).
When “FREEZE” has been selected as the REPT MODE setting and if the END point is set at the tape end, the playback image will not freeze properly. Set this point on a part of the tape where images have been recorded.
- If the counter display mode (TC or CTL) established when the mode setting was selected by setup menu item No.161 (BGN PRESET) or No.162 (END PRESET) and the counter display mode (TC or CTL) for repeat playback do not match, the REPEAT lamp flashes, and the repeat playback operation is not performed.

Time Code & User's Bit

Time code

The time code signal is generated by the time code generator and recorded on the tape, and its value is read by the time code reader. The time code is used to display the absolute position of the tape in hour, minute, second and frame increments.

The time code is written in the sub-code area (data area) on the helical track. For this reason, the VTR's playback speed can be read out from the stop mode to the slow-motion playback to high-speed playback. The time code value is shown on the display and superimposed on the screen.

TCR	00 :	07 :	04 :	24
	↑	↑	↑	↑
	Hours	Minutes	Seconds	Frames

User's bit

The user's bit refers to the 32-bit (8-digit) information frame which is the only part of the time code signals open to the user for use. It can be used to record the operator number or other such information.

The alphanumeric characters which can be used for the user's bit are the numbers 0 through 9 and the upper-case letters A through F.

Setting the time code

- 1 Set the VTR to the menu mode.**
(By setting the LOCAL/MENU/REMOTE switch to the MENU position.)
- 2 Select "INT" as the setup menu item No.520 (TC MODE SW) setting.**
- 3 Select the setup menu item No.530 (TC PRESET) setting.**
- 4 The value of the first digit starts flashing when the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button) is pressed.**
- 5 When the MENU UP button (FF button) or MENU DOWN button (STOP button) is pressed, the digit to be changed moves, and the new digit starts flashing.**
- 6 Change the value by pressing the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button).**
- 7 Upon completion of the setting, press the SET button (REC button).**
(Operation now returns to the regular menu screen.)
- 8 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.**

<Notes>

- The current value of the time code generator is displayed as the initial value.
- If the RESET button is pressed when "TC PRESET" has been set (while the number is still flashing), the display is reset to 00000000.
- The time code cannot be set when it has been set to "REGEN" by a combination of setup menu item No.503 (REGEN) and No.505 (TCG REGEN).
- If the MODE button (SEARCH button) is pressed without pressing the SET button upon completion of the setting, the time code setting will be canceled, and operation will return to the regular menu screen.

Time Code & User's Bit

Setting the user's bit

1 Set the VTR to the menu mode.
(By setting the LOCAL/MENU/REMOTE switch to the MENU position.)

2 Select the setup menu item No.531 (UB PRESET) setting.

The remaining steps are the same as for setting the time code.

Time code/user's bit playback

1 Set the VTR to the STOP mode.

2 Set TC or UB using the COUNTER button.

TC : The time code is displayed.

UB : The user's bit is displayed.

- When the time code can no longer be read, it is interpolated using the CTL signal.

3 Press the PLAY button.

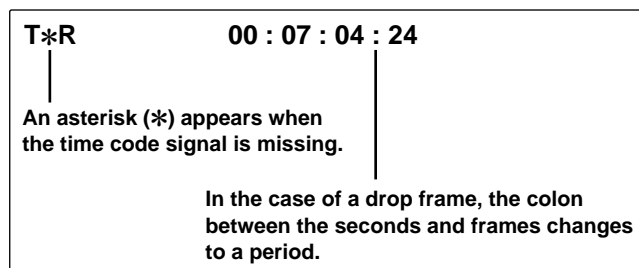
Playback is started, and the time code appears on the display.

If "ON" has been selected as the setup menu item No.005 setting, the time code value is superimposed onto the video signals which are output from the VIDEO OUT2 connector.

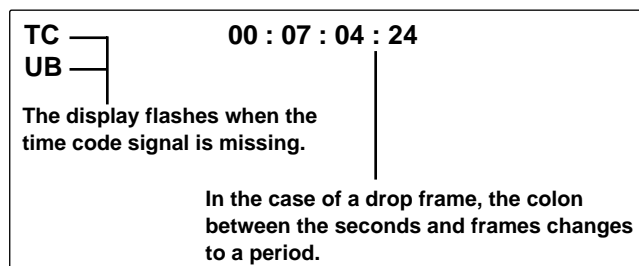
<Notes>

- When the drop frame time code is read, the colon between the seconds and frames changes to a period.
- If the time code signal is missing, it is automatically compensated for by the CTL signal. What is displayed is shown below.

Superimposed display

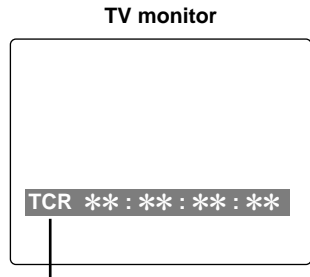


Counter display



Superimposed Screens

When a TV monitor and the VIDEO OUT2 connector are connected, the abbreviations of the control signal, time code, etc. are displayed on the TV monitor. These displays can be turned ON or OFF using the setup menu item No.005 setting.



Abbreviations

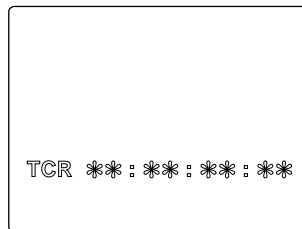
CTL (control signal)
TCR (time code playback value)
UBR (user's bit playback value)
REM (remaining tape)

Display characters

The background of the characters used for the superimposed displays can be changed using the setup menu item No.009 (CHARA TYPE).



TV monitor



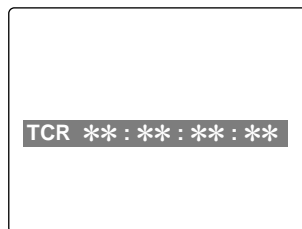
TV monitor

Display position

The position of the superimposed displays can be changed using the setup menu item No.007 (CHARA H-POS) and No.008 (CHARA V-POS) settings.



TV monitor



TV monitor

<Note>

When the PAGE button and DATA+ button or DATA- button are pressed, the counter display appears temporarily while the buttons are held down so that the settings can be checked.

It is also possible to proceed with the settings while checking the actual situation using the DATA+ button and DATA- button while the PAGE button is held down.

Operation mode

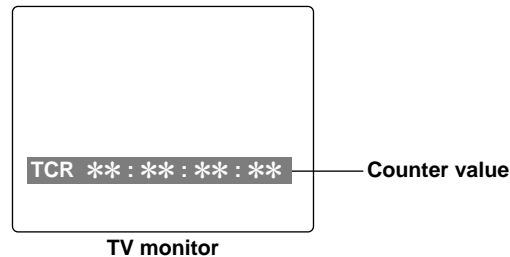
The content to be displayed can be selected using the setup menu item No.006 (DISPLAY SEL).

TIME : Counter value

T&STA : Counter value, VTR operation mode

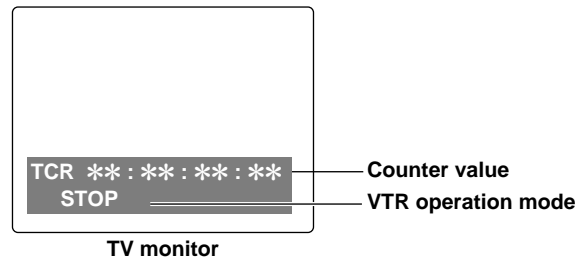
T&S&M : Counter value, VTR operation mode, tape format or error message

TIME mode



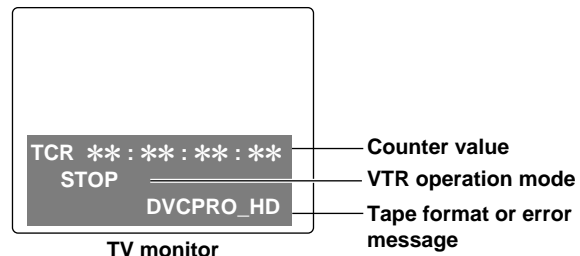
TV monitor

T&STA mode



TV monitor

T&S&M mode



TV monitor

<Note>

In the VTR operation mode, "BOT" (beginning of tape) or "EOT" (end of tape) appears at the start of the line when the beginning or end of the tape has been detected.

Examples of displays:

EOT STOP

(stopped at the end of the tape)

BOT STANDBY OFF

(on standby at the beginning of the tape)

Setup (Initial Settings)

The VTR's main settings can be performed and checked using the on-screen menus which are displayed on the video monitor connected to the VTR. They can also be performed and checked using the item numbers and setting numbers which are displayed on the VTR's front panel display. The VTR comes with a user setting memory so that desired settings can be stored in the memory ahead of time and recalled for use at any time.

How to perform settings using the on-screen menu

1 Set the LOCAL/MENU/REMOTE switch to the MENU position.

The VTR is set to the menu setting mode, and the menu screen is displayed on the video monitor.

SET-UP MENU	MAIN
	NO.00
* 00 SYSTEM	
000 BASIC	
100 OPERATION	
200 INTERFACE	
400 TAPE PROTECT	
500 TIME CODE	
600 VIDEO	
700 AUDIO	
A00 MENU	

In the menu setting mode, the REW, STOP, FF, SEARCH, PLAY, PAUSE/STILL and REC control buttons function as the PAGE, MENU-DOWN, MENU-UP, MODE, DATA-, DATA+ and SET buttons, respectively.

2 Press the MENU-UP button or MENU-DOWN button to move the cursor (*) to the first menu item to be changed.

3 Press the MODE button, and select the setting for each item.

To return to the menu screen, press the MODE button while holding down the PAGE button.

4 Press the MENU-UP button or MENU-DOWN button to move the cursor (*) to the next menu item to be changed.

Pages can be scrolled up or down by pressing the MENU-UP button or MENU-DOWN button while holding down the PAGE button.

5 Press the DATA- or DATA+ button to change the setting.

6 Press the SET button to enter the setting.

To change multiple items, repeat steps 4, 5 and 6.

<Notes>

A setting can be canceled by pressing the MODE button.

To change another item without entering the setting, press the MODE button and then repeat steps 4, 5 and 6.

7 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

This completes the menu settings.

How to return to the factory settings

1 Set the LOCAL/MENU/REMOTE switch to the MENU position.

The VTR is set to the menu setting mode, and the menu screen is displayed on the video monitor.

2 Press the RESET button.

The VTR is set to the default setting mode, and the default setting screen is displayed on the video monitor.

SELECT MODE
* 0 ESCAPE
1 LOAD
2 SAVE
3 PROTECT

Setup (Initial Settings)

- 3** Press the MENU-UP button or MENU-DOWN button to move the cursor to the LOAD position, and press the SET button.

The VTR is set to the LOAD mode, and the LOAD screen is displayed on the video monitor.

```
SET-UP MENU    <LOAD>
* NO
  FACTORY
  USER (ALL)
  USER (NOT SYSTEM)
```

- 4** Press the MENU-UP button or MENU-DOWN button to move the cursor to FACTORY, and press the SET button.

- If the cursor is moved to FACTORY and this operation is performed, the factory settings are restored for all the menus with the exception of the SYSTEM menu.
- If the cursor is moved to NO and this operation is performed, operation returns to the menu screen without restoring the factory settings.

- 5** Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

This completes the menu settings.

- 4** Press the MENU-UP button or MENU-DOWN button to move the cursor to the SAVE position, and press the SET button.

The VTR is set to the SAVE mode, and the SAVE screen is displayed on the video monitor.

```
SET-UP MENU    <SAVE>
* NO
  USER (ALL)
  USER (NOT SYSTEM)
```

- 5** Press the MENU-UP button or MENU-DOWN button to move the cursor to USER (ALL), and press the SET button.

- If the cursor is moved to USER (NOT SYSTEM) and this operation is performed, the settings are updated for all the menus with the exception of the SYSTEM menu.
- If the cursor is moved to NO and this operation is performed, operation returns to the menu screen without updating the settings.

- 6** The screen on which SAVE is checked now appears. Press the MENU-UP button or MENU-DOWN button to move the cursor to the YES position, and press the SET button.

The settings are now stored in the memory.

```
SAVE OK?
* NO
  YES
```

- 7** Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

This completes the menu settings.

How to set the user defaults

- 1** Set the LOCAL/MENU/REMOTE switch to the MENU position.

The VTR is set to the menu setting mode, and the menu screen is displayed on the video monitor.

- 2** Perform steps 2 through 6 in “How to perform settings using the on-screen menu,” and change to the desired settings.

- 3** Press the RESET button.

The VTR is set to the default setting mode, and the default setting screen is displayed on the video monitor.

```
SELECT MODE
* 0 ESCAPE
  1 LOAD
  2 SAVE
  3 PROTECT
```

Setup (Initial Settings)

How to load the user defaults

1 Set the LOCAL/MENU/REMOTE switch to the MENU position.

The VTR is set to the menu setting mode, and the menu screen is displayed on the video monitor.

2 Press the RESET button.

The VTR is set to the default setting mode, and the default setting screen is displayed on the video monitor.

```
SELECT MODE
* 0 ESCAPE
  1 LOAD
  2 SAVE
  3 PROTECT
```

3 Press the MENU-UP button or MENU-DOWN button to move the cursor to the LOAD position, and press the SET button.

The VTR is set to the LOAD mode, and the LOAD screen is displayed on the video monitor.

```
SET-UP MENU    <LOAD>
* NO
  FACTORY
  USER (ALL)
  USER (NOT SYSTEM)
```

4 Press the MENU-UP button or MENU-DOWN button to move the cursor to USER (ALL), and press the SET button.

- If the cursor is moved to USER (NOT SYSTEM) and this operation is performed, operations are performed using the user settings stored in the memory for all the menus with the exception of the SYSTEM menu.
- If the cursor is moved to NO and this operation is performed, operation returns to the menu screen while the user settings stored in the memory remain unchanged.

5 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

This completes the menu settings.

How to protect the menus

By setting the unit to the menu protection mode, opening of the setup menus can be prevented even when the LOCAL/MENU/REMOTE switch on the front panel has been set to the MENU position.

1 Set the LOCAL/MENU/REMOTE switch to the MENU position.

The VTR is set to the menu setting mode, and the menu screen is displayed on the video monitor.

2 Press the RESET button.

The VTR is set to the default setting mode, and the default setting screen is displayed on the video monitor.

```
SELECT MODE
* 0 ESCAPE
  1 LOAD
  2 SAVE
  3 PROTECT
```

3 Press the MENU-UP button or MENU-DOWN button to move the cursor to the PROTECT position, and press the SET button.

The VTR is set to the menu protection setting mode, and the screen for checking the menu protection function is displayed on the video monitor.

```
MENU PROTECT OK?
* NO
  YES
```

4 Press the MENU-UP button or MENU-DOWN button to move the cursor to YES, and press the SET button.

The menu screen now appears.

Setup (Initial Settings)

5 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

The unit is now set to the menu protection mode. When the LOCAL/MENU/REMOTE switch is set to the MENU position, the VTR is not set to the menu setting mode, and "MENU PROTECTED" appears on the video monitor screen.

<Notes>

If, while the menu protection mode is being set, the LOCAL/MENU/REMOTE switch is set to the MENU position while the COUNTER button on the front panel is pressed, the unit is set to the menu setting mode, and regular menu settings can be performed.

Perform steps 2 through 7 of "How to perform settings using the on-screen menu."

How to release the menu protection

1 Set the LOCAL/MENU/REMOTE switch to the MENU position while pressing the COUNTER button on the front panel.

The unit is set to the menu setting mode, and the menu screen is displayed on the video monitor.

2 Perform steps 2 and 3 of "How to protect the menus."

The screen for checking the menu protection function is displayed on the video monitor.

```
MENU PROTECT OK?
* NO
  YES
```

3 Press the MENU-UP button or MENU-DOWN button to move the cursor to NO, and press the SET button.

The menu protection function is now released.

How to display the DIAG menu

This unit comes with a function for displaying the "HOURS METER," software "VERSION" and the deck's serial number on the video monitor.

1 Set the LOCAL/MENU/REMOTE switch to the MENU position while pressing the EJECT button.

The unit is set to the DIAG display mode, and the hours meter and deck's serial number are displayed on the video monitor.

DIAG-MENU	HOURS METER
Ser	*****
H00	OPERATION 00000H
H01	DRUM RUN 00000H
H02	TAPE RUN 00000H
H03	THREADING 00000T
H11	DRUM RUN r 00000H
H12	TAPE RUN r 00000H
H13	THREADING r 00000T
END	

Items with "r" can be reset when servicing is performed.

2 While the hours meter is displayed, press the MENU-UP button or MENU-DOWN button while pressing the PAGE button.

The software version is displayed on the video monitor.

DIAG-MENU	VERSION
<NTSC>	
FRONT	1.**-**
IF	1.**-**-**
AV-SYSCON	1.**-**-**
SERVO	1.**-**-**
END	

The hour meter display is restored by pressing the MENU-UP button or MENU-DOWN button again while pressing the PAGE button.

3 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

Operation now returns to the regular mode.

Setup Menus

SYSTEM

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
12	SYS H (HD)	0550 : <u>1100</u> : 1650	–550 : <u>0</u> : 550	For adjusting the system phase of the HD SDI output (in 27 ns steps). –: The phase is moved ahead. +: The phase is moved back.
14	SYS SC (SD)	0000 : <u>0108</u> : 0216	–108 : <u>0</u> : 108	For adjusting the system phase of the VIDEO output and SD SDI output. (Total variable range: ±180 degrees or more) –: The phase is moved ahead. +: The phase is moved back.
15	SYS H (SD)	0000 : <u>0429</u> : 0858	–429 : <u>0</u> : 429	For adjusting the system phase of the VIDEO output and SD SDI output. (in 74 ns steps) –: The phase is moved ahead. +: The phase is moved back. <Note> While the value is being adjusted, the sound output will be muted; however this is normal and not indicative of a problem. When the adjustment is finished, sound will be output.
18	SCH COAR (SD)	<u>0000</u> 0001 0002 0003	<u>0</u> 90 180 270	For adjusting the SCH (subcarrier to horizontal) phase of the VIDEO output. (4 positions at 90-degree increments) The SC phase is changed, and the H phase remains unchanged.
19	SCH FINE (SD)	0000 : <u>0032</u> : 0064	–32 : <u>0</u> : 32	For adjusting the SCH (subcarrier to horizontal) phase of the VIDEO output. (Variable range of ±45 degrees or more) The SC phase is changed, and the H phase remains unchanged. Use together with No.18 SCH COAR (SD) to cover ±180 degrees.
20	AV PHASE	0000 : <u>0100</u> : 0200	–100 : <u>0</u> : 100	For adjusting the phase of the AUDIO output with respect to the VIDEO output (in 20.8 μs steps). –: The audio output phase is moved ahead of the video output. +: The audio output phase is moved back from the video output.

The underlining denotes the factory mode.

<Note>

Items No.12 to No.20 are not initialized even when the initialization operation is conducted.

Setup Menus

BASIC

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
001	LOCAL ENA	0000 <u>0001</u> 0002	DIS ST&EJ ENA	For setting the buttons which can be operated on the front panel when the LOCAL/MENU/REMOTE switch is at the REMOTE position. 0: No buttons can be operated. 1: Only the STOP and EJECT buttons can be operated. 2: All the buttons can be operated except for COUNTER and RESET.
002	TAPE TIMER	<u>0000</u> 0001	$\pm 12h$ 24h	For setting the time system on the CTL counter display. 0: 12-hour system 1: 24-hour system
003	REMAIN SEL	0000 <u>0001</u> 0002 0003	OFF <u>2L</u> 1L R/TTL	For setting the superimposing of the remaining tape time and total tape length displays for the VIDEO OUT2 connector. 0: No superimposed displays 1: Remaining tape time is displayed on the second line. 2: Remaining tape time is displayed on the first line. 3: Remaining tape time is displayed on the first line and the total tape length on the second line. <Notes> <ul style="list-style-type: none"> When "2L" has been selected as this item's setting, the time will not be displayed even if "TIME" was selected as the menu item No.006 (DISPLAY SEL) setting. Even when "R/TTL" has been selected as this item's setting, the total tape length will not be displayed if "TIME" has been selected as the menu item No.006 (DISPLAY SEL) setting.
005	SUPER	0000 <u>0001</u>	OFF <u>ON</u>	For setting whether the displays are to be superimposed onto the VIDEO OUT2 connector. 0: The displays are not superimposed. 1: The displays are superimposed.
006	DISPLAY SEL	0000 <u>0001</u> 0002	TIME <u>T&STA</u> T&S&M	For setting what displays are to be superimposed onto the VIDEO OUT2 connector. 0: Only the time display is superimposed. 1: The time and operation status are superimposed. 2: The time, operation status and mode are superimposed. <Note> When "T&S&M" has been selected as this item's setting and a warning or error occurs, an error message is superimposed.
007	CHARA H-POS	0000 : <u>0006</u> : 0037	0 : 6 : 37	For setting the horizontal position where the superimposed display is to appear.
008	CHARA V-POS	0000 : <u>0023</u> : 0032	0 : 23 : 32	For setting the vertical position where the superimposed display is to appear.

The underlining denotes the factory mode.

<Notes>

- If the PAGE button and the DATA+ or DATA- button are pressed together when menu item No.007 (CHARA H-POS) and No.008 (CHARA V-POS) are being set, the counter display appears temporarily while these buttons are held down to enable the settings to be checked.
It is also possible to use the DATA+ button and DATA- button while holding down the PAGE button to perform the settings while at the same time checking their actual status.
- Even when "OFF" is selected as the menu item No.005 (SUPER) setting, the superimposing is displayed in accordance with the menu No.006 (DISPLAY SEL) setting while the menu settings are being performed. When the menu setting process is exited, the display accords with the menu item No.005 (SUPER) setting.

Setup Menus

BASIC

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
009	CHARA TYPE	<u>0000</u> 0001	<u>WHITE</u> W/OUT	For setting the superimposed display and the menu display type. 0: White characters are displayed on a black background. 1: White characters with black borders are displayed.
020	SYS FORMAT	<u>0000</u> 0001	<u>1080i</u> 720p	For setting the format used to record and play back signals including the HD REF signal. 0: 1080i mode 1: 720p mode
022	PB FORMAT	<u>0000</u> 0001	<u>MANUAL</u> AUTO	For setting the format used for playing back the tape. 0: The menu item No.020 (SYS FORMAT) setting is complied with. 1: The format in which the recording on the tape was performed is complied with.

The underlining denotes the factory mode.

Setup Menus

OPERATION

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
101	SHTL MAX	<u>0000</u> <u>0001</u>	X8.4 <u>X16</u>	For setting the maximum shuttle mode speed when using the external controller connected to the 9-pin remote connector. 0: 8.4× normal speed 1: 16× normal speed
104	REF ALARM	<u>0000</u> <u>0001</u>	OFF <u>ON</u>	For setting whether the warnings are to be indicated when the REF VIDEO has not been connected. 1: No warnings are indicated. 2: Warnings are indicated by the STOP lamp which flashes.
106	EJECT EE SEL	<u>0000</u> <u>0001</u>	<u>EE</u> BLANK	For setting the video and audio output statuses when the tape is ejected. 0: The signals are always output in the E-E (electric modulation to electric playback) mode regardless of the position of the TAPE/EE switch. 1: The output status changes according to the position of the TAPE/EE switch. EE : The signals are output in the E-E mode. TAPE : A blank is output for the video signals, and the audio signals are muted.
110	AUTO REW	<u>0000</u> <u>0001</u>	OFF <u>ON</u>	For setting whether the tape is to be rewound automatically to its start when the tape-end has been detected. 0: The tape is not rewound. 1: The tape is rewound to its start.
112	FRZ MODE SEL	<u>0000</u> <u>0001</u>	<u>DIS</u> STBOFF	For setting the video output when the mode has moved from playback images to the STANDBY OFF (half loading) mode. 0: The video output is muted. 1: The playback image appearing at the moment when the STANDBY OFF (half loading) mode is established is frozen and output.
114	REC INH LAMP	<u>0000</u> <u>0001</u>	<u>LIGHT</u> FLASH	For setting the REC INHIBIT lamp operation when the cassette is set to the accidental erasure prevention mode. 0: The lamp lights. 1: The lamp flashes. <Notes> The REC INHIBIT lamp always lights regardless of this setting when the REC INHIBIT switch on the front panel is set to the ON position.
115	EJECT SW INH	<u>0000</u> <u>0001</u>	<u>REC</u> OFF	For setting a restriction on the operation of the front panel's EJECT button. 0: Operating the button is prohibited while the recording mode is established. 1: The button can be operated in any mode.
117	M CASSTT INH	<u>0000</u> <u>0001</u>	OFF <u>ON</u>	For setting a restriction on recording onto M-size cassette tapes. 0: Recording onto M-size cassette tapes is permitted. 1: Recording onto M-size cassette tapes is prohibited.
150	SEARCH SPEED	<u>0000</u> <u>0001</u>	X4.1 X8.4	For setting the speed at which the tape is to decelerate when the front panel's search button is pressed. 0: 4.1× normal speed 1: 8.4× normal speed
152	HUMID OPE	<u>0000</u> <u>0001</u>	OFF <u>ON</u>	For setting the operation to be performed when condensation has formed. 0: The unit does not operate when condensation has formed. 1: The unit can be operated when condensation has formed but no guarantee is made that it will operate properly. <Note> Due to the possibility of tape damage and other problems, select the "0: Unit does not operate" setting for normal operation.

The underlining denotes the factory mode.

Setup Menus

OPERATION

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
154	AUTO BACK	0000 <u>0001</u> 0002	OFF REC-P ALL	For setting the operation method used for the frame-to-frame continuity function. (This item activates the AUTO BACK function to rewind the tape for several seconds in order to ensure a smooth continuity between the recorded images.) 0: No AUTO BACK operation. 1: In the REC PAUSE mode, the AUTO BACK function is activated, and the tape stops in the recording standby mode. (When PAUSE is released, the tape runs up and recording starts.) 2: In addition to the menu item No.0001 (REC-P) function, the AUTO BACK function is activated in the REC PLAY mode, the tape runs up immediately, and recording starts.
160	MEMORY MODE	0000 <u>0001</u> 0002 0003	OFF M-STOP REPT1 CONT	For setting the repeat playback mode. 0: No repeat playback (normal operation). 1: The tape stops near the BEGIN point when it is fast forwarded or rewound. 2: When the tape reaches the END point, it is rewound to the BEGIN point where it stops. 3: When the tape reaches the END point, it is rewound to the BEGIN point and played, and this process is repeated.
161	BGN PRESET (CTL or TC)			For setting the BEGIN point in the repeat playback mode. The counter display mode is set to either TC or CTL by the COUNTER button. When the BEGIN point is not set, "--:--:--" appears on the display, and the beginning of the tape serves as the BEGIN point.
162	END PRESET (CTL or TC)			For setting the END point in the repeat playback mode. The counter display mode is set to either TC or CTL by the COUNTER button. When the END point is not set, "--:--:--" appears on the display, and the tape end serves as the END point.
163	REPT MODE	0000 0001 0002	<u>FREEZE</u> BLACK SW	For setting what image is to be output when the tape returns to the BEGIN point in the repeat playback mode. 0: The tape returns to the BEGIN point while the playback image at the END point remains frozen. 1: The tape returns to the BEGIN point while the picture remains black. 2: The tape returns to the BEGIN point in accordance with the TAPE/EE switch setting. <Note> If the END point is set at the tape end when "0: FREEZE" has been selected, the playback image will not be frozen properly. Set the END point within the range of the tape where images are recorded.
180	BATTERY SEL	0000 0001 0002	NiCd12 NiCd13 NiCd14	For setting the battery type. 0: 12 V type of battery 1: 13 V type of battery 2: 14 V type of battery

The underlining denotes the factory mode.

Setup Menus

INTERFACE

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
202	ID SEL	<u>0000</u> 0001 0002	<u>OTHER</u> DVCPRO ORIG	For setting the ID information to be returned to the controller. 0: 20 25H is returned. 1: The ID (F0 33H) unique to the DVCPRO is returned. 2: The ID (A0 51H) unique to the unit is returned.

The underlining denotes the factory mode.

TAPE PROTECT

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
400	STILL TIMER	0000 0001 0002 0003 0004 0005 0006 0007 <u>0008</u>	0.5S 5S 10S 20S 30S 40S 50S 1min <u>2min</u>	For setting the time taken before the unit is set to the tape protection mode when it has been left in the STOP or STILL mode. (Unit: S = seconds, min: minutes)
401	SRC PROTECT	<u>0000</u> 0001	<u>STEP</u> HALF	For setting the tape protection mode operation when the unit has been left in the STILL mode. 0: STEP FWD 1: STANDBY OFF (half loading) <Note> When STEP FWD has been set, the unit is automatically transferred to the STANDBY OFF (half loading) mode when it has been left in the STILL mode for a total of 30 minutes.
402	DRUM STDBY	0000 <u>0001</u>	OFF <u>ON</u>	For setting the drum operation in the STANDBY OFF (half loading) mode. 0: The drum stops rotating. 1: The drum continues to rotate.
403	STOP PROTECT	0000 <u>0001</u>	<u>STEP</u> HALF	For setting the tape protection mode operation when the unit has been left in the STOP mode. 0: STEP FWD 1: STANDBY OFF (half loading) <Note> When STEP FWD has been set, the unit is automatically transferred to the STANDBY OFF (half loading) mode when it has been left in the STOP mode for a total of 30 minutes.

The underlining denotes the factory mode.

Setup Menus

TIME CODE

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
500	VITC BLANK	<u>0000</u> <u>0001</u>	BLANK <u>THRU</u>	For setting whether to output the VITC signal to the position set by menu item No.501 (VITC POS-1) and No.502 (VITC POS-2). 0: The VITC signal is not output. 1: The VITC signal is output. <Note> This setting is only effective for SD outputs (VIDEO output and SD SDI output).
501	VITC POS-1	0000 : <u>0006</u> : 0010	10L : <u>16L</u> : 20L	For setting the position where the VITC signal is to be inserted. <Notes> ● The same line as that set for menu item No.502 (VITC POS-2) cannot be set. ● This setting is only effective for SD outputs (VIDEO output and SD SDI output).
502	VITC POS-2	0000 : <u>0008</u> : 0010	10L : <u>18L</u> : 20L	For setting the position where the VITC signal is to be inserted. <Notes> ● The same line as that set for menu item No.501 (VITC POS-1) cannot be set. ● This setting is only effective for SD outputs (VIDEO output and SD SDI output).
503	REGEN	<u>0000</u> 0001	<u>REGEN</u> PRE	For setting the synchronization method of the internal time code generator. 0: The time code reader is synchronized to the time code which is read from the tape. 1: The synchronization method can be preset by a front panel operation or using the remote controller.
504	RUN MODE	<u>0000</u> 0001	<u>REC</u> FREE	For setting the operation mode in which the internal time code generator advances the time code. 0: The generator advances only during recording. 1: It advances while the power is on regardless of the operation mode.
505	TCG REGEN	<u>0000</u> 0001 0002	<u>TC&UB</u> TC UB	For setting the signal to be regenerated when the TCG (time code generator) is in the regeneration mode. 0: Both the time code and user's bit are regenerated. 1: Only the time code is regenerated. 2: Only the user's bit is regenerated.
508	BINARY GP	<u>0000</u> 0001 0002 0003 0004 0005 0006 0007	<u>000</u> 001 010 011 100 101 110 111	For setting the conditions under which the user's bit in the time code generated by TCG is to be used. 0: Not specified (character set is not specified). 1: ISO characters (8-bit character set compliant with ISO646, ISO2022) 2: Unassigned 1 (not defined) 3: Unassigned 2 (not defined) 4: Unassigned 3 (not defined) 5: Page/line 6: Unassigned 4 (not defined) 7: Unassigned 5 (not defined)
509	PHASE CORR	<u>0000</u> 0001	<u>OFF</u> ON	For setting whether to control the phase compensation for the LTC output during playback. 0: The phase compensation is not controlled. 1: The phase compensation is controlled.

The underlining denotes the factory mode.

Setup Menus

TIME CODE

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
511	DF MODE	<u>0000</u> 0001	<u>DF</u> NDF	For setting the DF or NDF mode for CTL and TCG. 0: The drop frame mode is used. 1: The non-drop frame mode is used. <Note> The drop frame mode setting is valid when the REMOTE/MENU/LOCAL switch is at the LOCAL position and ENA has been selected as the menu item No.001 (LOCAL ENA) setting.
512	TC OUT REF	<u>0000</u> 0001	<u>VOUT</u> TC_IN	For setting the signals to whose phase the phase of the time code which is output from the TC OUT connector is to be aligned in response to the external LTC input when EXT has been selected as the menu item No.520 (TC MODE SW) setting. (Only in the E-E mode) 0: For aligning with the output video signal. 1: For aligning with the external time code input signal.
520	TC MODE SW	<u>0000</u> 0001	<u>INT</u> EXT	For setting the time code which will serve as the reference during recording. 0: Time code generated by the internal time code generator 1: External time code
530	TC PRESET			For setting the time code value of the internal time code generator. 00000000 to 23595929
531	UB PRESET			For setting the user's bit value of the internal time code generator. 00000000 to FFFFFFFF

The underlining denotes the factory mode.

Setup Menus

VIDEO

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
603	V-MUTE SEL	0000 <u>0001</u>	N-MUTE <u>GRAY</u>	For setting whether to mute the video output signal when a blank part of the tape has been detected during playback. 0: The video output signal is not muted (the image is frozen). 1: The video output signal is muted (the screen is turned gray).
620	DOWNCON MODE	0000 0001 0002 0003 0004	<u>FIT_V</u> <u>FIT_H</u> FIT_HV 14:9 13:9	For setting the image processing which is to be performed during down-conversion. 0: Side cut mode 1: Letter-box mode 2: Squeeze mode 3: Semi letter-box mode 14:9 4: Semi letter-box mode 13:9 <Note> While the setting is being adjusted, the sound output will be muted; however this is normal and not indicative of a problem. When the adjustment is finished, sound will be output.
645	D/C ENH	0000 <u>0001</u>	OFF <u>ON</u>	For setting whether to enhance the contours during down-conversion. 0: The contours are not enhanced. 1: The contours are enhanced.
672	V OUT SETUP	0000 <u>0001</u> 0002 0003	THRU <u>ADD22L</u> ADD21L ADD20L	For setting the setup processing for the composite output signal. 0: The original signal is output as is. 1: A 7.5% setup is added from line 22 of the output signal and output. 2: A 7.5% setup is added from line 21 of the output signal and output. 3: A 7.5% setup is added from line 20 of the output signal and output.
673	EDH	0000 <u>0001</u>	OFF <u>ON</u>	For setting whether to superimpose EDH onto the SD SDI output. 0: EDH is not superimposed. 1: EDH is superimposed.

The underlining denotes the factory mode.

Setup Menus

AUDIO

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
700	AUDIO IN SEL	0001 <u>0002</u>	ANA SDI	For setting the audio signal input (for all the channels at the same time). 1: Fixed to the analog signal input. 2: Fixed to the SDI signal input. <Note> When analog signals are input, they are recorded on the tape's audio tracks listed below depending on the channels to which they are input. CH1 input ➡ CH1 and CH5 tracks CH2 input ➡ CH2 and CH6 tracks CH3 input ➡ CH3 and CH7 tracks CH4 input ➡ CH4 and CH8 tracks
701	CH1 IN LV	0000 <u>0001</u> 0002 0003	4dB <u>0dB</u> -20dB -60dB	For setting the reference level of the analog audio input (CH1).
702	CH2 IN LV	0000 <u>0001</u> 0002 0003	4dB <u>0dB</u> -20dB -60dB	For setting the reference level of the analog audio input (CH2).
703	CH3 IN LV	0000 <u>0001</u> 0002 0003	4dB <u>0dB</u> -20dB -60dB	For setting the reference level of the analog audio input (CH3).
704	CH4 IN LV	0000 <u>0001</u> 0002 0003	4dB <u>0dB</u> -20dB -60dB	For setting the reference level of the analog audio input (CH4).
706	CH1 OUT LV	0000 <u>0001</u> 0002	4dB <u>0dB</u> -20dB	For setting the reference level of the analog audio output (CH1).
707	CH2 OUT LV	0000 <u>0001</u> 0002	4dB <u>0dB</u> -20dB	For setting the reference level of the analog audio output (CH2).
708	CH3/L OUT LV	0000 <u>0001</u> 0002	4dB <u>0dB</u> -20dB	For setting the reference level of the analog audio output (CH3/L).
709	CH4/R OUT LV	0000 <u>0001</u> 0002	4dB <u>0dB</u> -20dB	For setting the reference level of the analog audio output (CH4/R).

The underlining denotes the factory mode.

Setup Menus

AUDIO

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
730	REC CUE	0001 0002 0003 0004 0005 0006 0007 0008 <u>0009</u> 0010 0011 0012 0013	CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH1+2 CH3+4 CH5+6 CH7+8 CH1~8	For setting the input signal to be recorded on the cue track. 1: Audio input CH1 2: Audio input CH2 3: Audio input CH3 4: Audio input CH4 5: Audio input CH5 6: Audio input CH6 7: Audio input CH7 8: Audio input CH8 9: Audio input CH1 and CH2 mixed signals 10: Audio input CH3 and CH4 mixed signals 11: Audio input CH5 and CH6 mixed signals 12: Audio input CH7 and CH8 mixed signals 13: Audio input CH1 through CH8 mixed signals
731	PB FADE	<u>0000</u> 0001 0002	AUTO CUT FADE	For setting the processing to be performed at the audio edit points (IN and OUT points) and frame-to-frame continuity points during playback. 0: Processing accords with the status during recording. 1: Cut processing is forcibly performed. 2: Fade processing is forcibly performed.
732	EMBEDDED AUD	0000 <u>0001</u>	OFF <u>ON</u>	For setting whether the audio data is to be superimposed onto the HD SDI output and SD SDI output. 0: The audio data is not superimposed. 1: The audio data is superimposed.
765	CUE OUT SEL	<u>0000</u> 0001	<u>OFF</u> ON	For setting the analog cue signal output to the audio output (main line). 0: The analog cue signal is not output. PCM sound is output in the playback mode, and no sound is output in any other mode. 1: The analog cue signal is output. PCM sound is output in the playback mode, and the analog cue sound is output in any other mode.
769	MONI SEL	<u>0000</u> 0001	PLYPCM PLYCUE	For setting the monitor output sound during playback. 0: PCM sound is output. 1: Cue sound is output.
770	MONITOR MIX	<u>0000</u> 0001	<u>STEREO</u> CH1+2	For setting the audio monitor output sound. (This functions when the audio monitor selector switch on the front panel is at the “ST” position.) 0: Stereo sound is output. 1: Mixed sound is output (for both the L and R connectors).
771	H.PHONE MIX	<u>0000</u> 0001	<u>STEREO</u> CH1+2	For setting the headphone output sound. (This functions when the audio monitor selector switch on the front panel is at the “ST” position.) 0: Stereo sound is output. 1: Mixed sound is output (when monaural earphones are used).

The underlining denotes the factory mode.

Setup Menus

AUDIO

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
780	AUD OUT SEL	<u>0000</u>	<u>LINE</u>	For setting the output sound of the analog audio output connectors. 0: All the output connectors are used as the main line output. CH1 connector = CH1 sound CH2 connector = CH2 sound CH3 connector = CH3 sound CH4 connector = CH4 sound 1: The CH1 and CH2 output connectors are used as the main line output, and the CH3 and CH4 output connectors are used as the monitor output connectors. CH1 connector = CH1 sound CH2 connector = CH2 sound CH3 connector = Monitor L (CH1, CH2, CH1+CH2) sound CH4 connector = Monitor R (CH1, CH2, CH1+CH2) sound 2: The CH1 and CH2 output connectors are used as the main line output, and the CH3 and CH4 output connectors are used as the monitor output connectors. CH1 connector = CH3 sound CH2 connector = CH4 sound CH3 connector = Monitor L (CH3, CH4, CH3+CH4) sound CH4 connector = Monitor R (CH3, CH4, CH3+CH4) sound
		0001	CH1/2	
		0002	CH3/4	
781	IN IMP SEL	0000 <u>0001</u>	600 <u>HIGH</u>	For setting the impedance of the analog audio input. 0: 600 Ω 1: High impedance <Note> Regardless of the setting selected here, the impedance is set to 3 kΩ when -60 dB has been selected as the menu item No.701 to 704 (CH1 to CH4 IN LV) settings.

The underlining denotes the factory mode.

MENU

Item		Setting		Description of setting
No.	Superimposed display	No.	Superimposed display	
A02	P.ON LOAD	<u>0000</u> 0001	<u>OFF</u> ON	For setting whether to change the setup menu settings to the user's initial settings when the power is turned on. 0: The settings are not changed. 1: The settings are changed.

The underlining denotes the factory mode.

Error Messages

When a problem has occurred in the unit, one of the following messages will appear on the front panel's counter display and superimposed display on the monitor.

With the superimposed display, the error number is indicated in the part where the counter value is displayed.

When "T&S&M" has been selected as the setup menu item No.006 setting, the error message appears in the part of the superimposed display where the mode is displayed.

Error No.	Error message and description
--d--	DEW Condensation has formed. The unit can still be operated if "ON" has been selected as the setup menu item No.152 (HUMID OPE) setting. The counter value and "--d--" appear alternately on the front panel counter display.
E-00	SERVO NOT LOCKED This appears when the servo lock has been disengaged for 3 or more seconds during playback or recording.
E-01	LOW RF This appears when the head output is not supplied (due to head clogging, etc.) for 1 or more seconds during playback.
E-02	HIGH ERROR RATE This appears when the error rate has deteriorated, and the video or audio playback signals have been corrected or interpolated.
E-09	NO RF This appears when a tape blank has been detected for 1 or more seconds during playback. A state in which all of the following conditions are satisfied is recognized as a blank. <ul style="list-style-type: none"> • No output from any of the heads. • Playback data cannot be read. • No CTL signal.
E-10	FAN STOP This appears when the fan motor has stopped. The power is automatically turned off when 5 or so minutes have elapsed since the motor stopped.
E-29	FRONT LOAD MOTOR This appears when the cassette fails to rise even when 6 seconds have elapsed after the unit was transferred to the eject mode.
E-31	LOADING MOTOR This appears when the unloading operation fails to be completed within 6 seconds.
E-51	FRONT LOAD ERROR This appears when the take-up reel has continued to rotate without engaging with the tape for a specific period of time during the start or end processing operation performed midway through loading (half position).
E-52	W-UP REEL NOT ROTA This appears when the take-up reel fails to take up the tape while the tape is traveling in a state where its total tape length has not been detected after the cassette was inserted.
E-53	WINDUP ERROR This appears when there is an abnormal difference between the tape take-up amount on the take-up reel and the amount of tape supplied from the supply reel while the tape is traveling after the total tape length was detected.

Error No.	Error message and description
E-55	UNLOAD ERROR This appears when the tape has not been taken up during unloading.
E-57	S-FF/REW TIMEOVER This appears when the tape start or end processing operation fails to be completed.
E-59	DRUM ROTA TOO SLOW This appears when the rotational speed of the cylinder motor is abnormally low.
E-60	DRUM ROTA TOO FAST This appears when the rotational speed of the cylinder motor is abnormally high.
E-61	CAP ROTA TOO SLOW This appears when the rotational speed of the capstan motor is abnormally low.
E-64	S REEL TOO FAST This appears when the rotational speed of the supply reel motor is abnormally high.
E-67	T REEL TOO FAST This appears when the rotational speed of the take-up reel motor is abnormally high.
E-69	T REEL TORQUE ERR This appears when the application of an abnormal torque has been detected at the take-up reel motor.
E-6A	This error number appears on the front panel counter display when a communication error has occurred between the IF and FRONT microcomputers. The superimposed display itself is cleared from the monitor screen.
E-6B	FRP ERROR This appears when an error has occurred in the microcomputer reference signal.
E-70	S REEL TORQUE ERR This appears when the application of an abnormal torque has been detected at the supply reel motor.
E-71	CAP TENSION ERROR This appears when abnormal supply reel tension has been detected in the capstan mode.
E-72	REEL TENSION ERROR This appears when abnormal supply reel tension has been detected in the reel mode.
E-73	REEL DIR UNMATCH This appears when the take-up reel motor is rotated in the wrong direction.
E-bA	BATTERY This appears when the input DC voltage has dropped below the lower voltage limit (approx. 10.6 V).

Emergency Eject

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Procedure for removing the tape manually in an emergency

Use the procedure below to remove the cassette tape if it can not be removed even when the EJECT button is pressed.

- Before proceeding to eject the tape manually, you must first turn off the power to the unit.

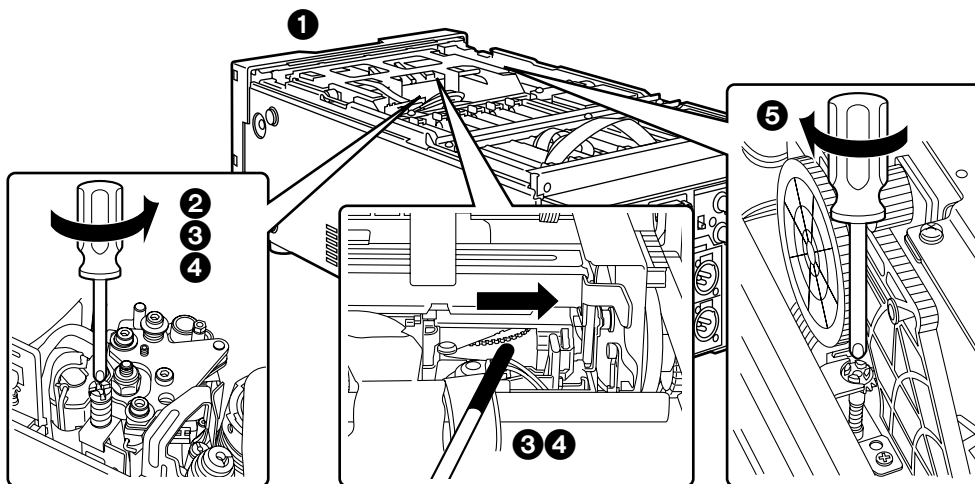
- 1 Remove the top panel.
- 2 Use a Phillips head screwdriver to push in and turn the red plastic screw part counterclockwise. (This screw needs to be rotated about 30 turns before unloading can be started.)
- 3 Insert the take-up jig (packed with the unit) into the tape ejection slot (on the mechanism side of the VTR), and rotate the flange part (white gear) of the supply reel in the take-up direction to take up the tape slack using the rubber part of the take-up jig.
- 4 Once more use the Phillips head screwdriver to push in and turn the red plastic screw part counterclockwise. Again rotate the flange part of the supply reel in the take-up direction to take up the tape slack. This two-step procedure needs to be repeated until the tape is completely housed in the cassette case (about 90 turns of the red plastic screw part).
- 5 Use the Phillips head screwdriver to turn the red plastic screw part at the slot-in side clockwise to eject the cassette tape. (This screw needs to be rotated through about 140 turns until the tape is ejected.)

<Note>

Take care not to damage the tape in any way.

<Note>

Take care not to sandwich or catch the tape when closing the cassette cover.



Video Head Cleaning

This unit is equipped with an auto head cleaning function, which automatically reduces the amount of dirt on the video heads. However, in order to enhance the unit's reliability, it is recommended that the video heads be cleaned every day. Use a cleaning fluid designated by the unit's manufacturer.

Condensation

The same principle by which droplets of water form on a window pane of a heated room is responsible for the formation of condensation inside the unit.

Condensation occurs in the unit or tape when it is moved from one location to another where there is a significant difference in temperature and humidity.

More specifically, it forms:

- When the unit (or tape) is moved to a very humid location where the air is full of steam, or to a room immediately after it has been heated
- When the unit (or tape) is abruptly moved from an air-conditioned location to a very warm or very humid location

When moving the unit to the kind of location described above, do not turn on its power immediately but leave it standing for about 10 minutes. If condensation has formed inside the unit, an error message (– d –) will light up on the counter display, and the cassette tape will be automatically ejected.

Leave the power on, and wait until the error message is cleared.

Maintenance

Before proceeding with maintenance, set the power switch to the OFF position, and disconnect the power cord from the power outlet. Make absolutely sure that you grasp the power plug when disconnecting the power cord.

Use a soft cloth to clean the cabinet. To remove stubborn dirt, dilute some kitchen detergent, soak a rag in the solution, wring it out well, and use it to wipe away the dirt. Wipe up any remaining moisture using a dry cloth. Do not use paint thinners or benzene.

Specifications

[GENERAL]

Supply voltage: AC 120 V $\pm 10\%$, 50 – 60 Hz Power consumption: 97 W DC supply voltage: 12 V DC power input current: 6.1 A

Ambient operating temperature:

41°F to 104°F (5°C to 40°C)

Ambient operating humidity:

10 to 85% (no condensation)

Weight:

18.04 lb (8.2 kg)

Dimensions (W×H×D):

8 7/16"×5 1/4"×16 15/16" (214×132×430 mm)

Recording format:

DVCPRO HD

Recording video signals:

1080i/59.94 Hz, 720p/59.94 Hz, selectable

Recording audio signals:

48 kHz, 16 bits, 8 channels

Recording tracks

- Digital video/audio: helical tracks
- Time code: helical tracks (sub-code area)
- Cue signal: 1 track
- Control (CTL): 1 track

Tape speed:

135.28 mm/sec

Recording time:

46 minutes (with AJ-HP46LP)

Tape used:

Metal tape

FF/REW time:

Less than 4 minutes (with AJ-HP46LP)

[VIDEO]

■ Digital video

Sampling frequency:

Y : 74.25/1.001 MHz

P_B/P_R : 37.125/1.001 MHz

Quantizing:

8 bits

Video compression system:

DCT + variable-length code

Video compression rate:

1/6.7

Error correction:

Reed Solomon product code

Video recording bit rate:

100 Mbps

■ Video input connectors

HD serial digital input:

BNC×1,

(compliant with SMPTE 292M/296M standard)

Reference input:

Automatic switching between analog composite and HD tri-level sync (59.94 Hz),

BNC×2 (loop-through), 75 Ω ON/OFF switchable

■ Video output connectors

HD serial digital outputs:

BNC×2

(compliant with SMPTE 292M/296M standard)

SD serial digital output (down-converter):

BNC×1

(compliant with SMPTE 259M-C standard)

Analog composite outputs (down-converter):

BNC×2, VIDEO 1, VIDEO 2 (superimposing ON/OFF)

■ Video output adjustment range

HD serial digital output system phase:

± 0.5 H (± 550 samples, 27 ns steps)

SD serial digital/composite video output system phase:

± 0.5 H (± 429 samples, 74 ns steps)

Composite video output SC phase:

$\pm 180^\circ$

Specifications

[AUDIO]

■ Digital audio

Sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits

Frequency response:

20 Hz to 20 kHz ± 1 dB (at reference level)

Dynamic range:

More than 85 dB

(1 kHz, emphasis OFF, "A" weighted)

Distortion:

Less than 0.1%

(1 kHz, emphasis OFF, reference level)

Crosstalk:

Less than -80 dB

(1 kHz, between two channels)

Wow & flutter:

Negligible

Headroom:

20 dB

■ Audio input connectors

Analog inputs (CH1, CH2, CH3, CH4):

XLR $\times 4$, 600 Ω /high impedance selectable

(default: high impedance),

+4/0/ -20 / -60 dBu selectable (-60 dBu: 3 k Ω)

HD serial digital input:

Compliant with SMPTE 299M standard

(BNC, 75 Ω)

■ Audio output connectors

Analog outputs (CH1, CH2, CH3, CH4):

XLR $\times 4$, low impedance,

+4/0/ -20 dBu selectable,

monitor output L/R selectable for CH3/CH4
output

HD serial digital output:

Compliant with SMPTE 299M standard

(BNC, 75 Ω)

SD serial digital output:

Compliant with SMPTE 272M-A standard

(BNC, 75 Ω)

Headphone output:

M3, 8 Ω , variable level

[OTHER INPUT/OUTPUT CONNECTORS]

Time code input:

BNC $\times 1$, 0.5 to 8 V [p-p], 10 k Ω

Time code output:

BNC $\times 1$, low impedance, 2.0 ± 0.5 V [p-p]

RS-422A input:

D-sub 9 pins, for AJ-A95, RS-422A interface

DC power output:

4-pin socket, DC 12 V, 250 mA, for AJ-A95

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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SECTION 2

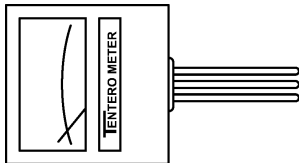
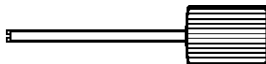
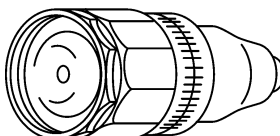
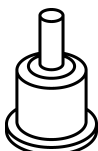
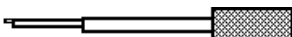

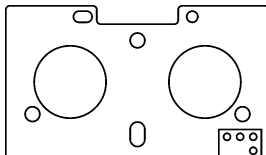
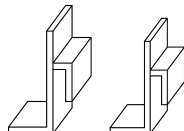
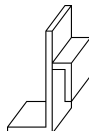
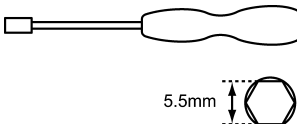
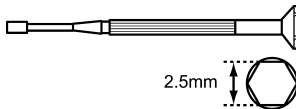
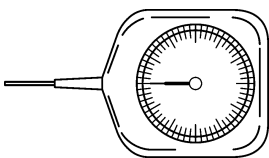
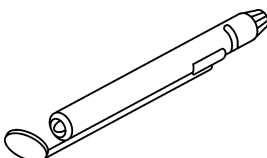
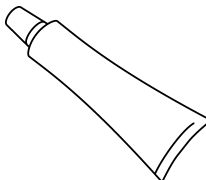
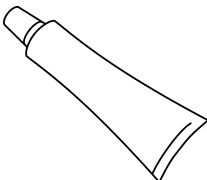
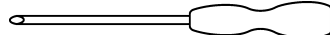
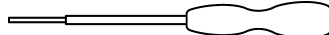
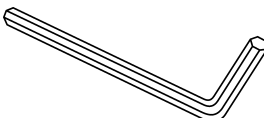
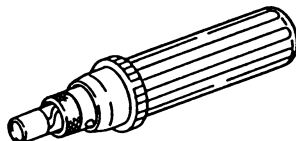
SERVICE INFORMATION

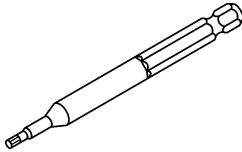
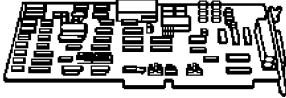
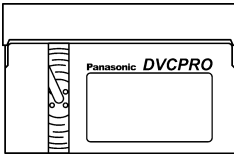
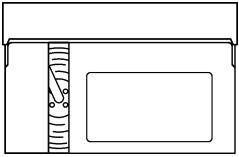
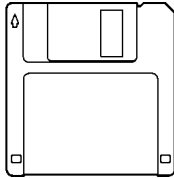
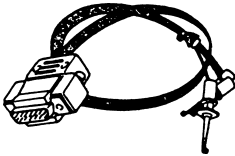

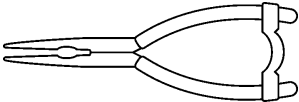
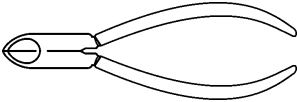
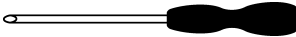
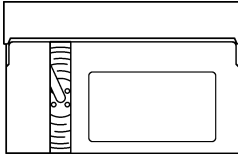

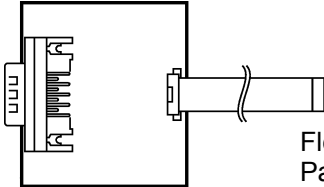
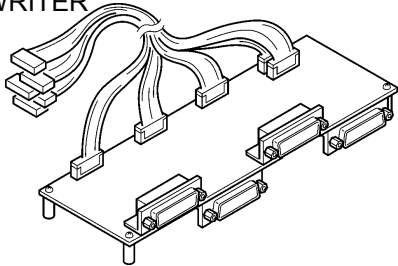
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1. SERVICING FIXTURES & TOOLS

Drawing No.	PART No.	FIXTURE & TOOL NAME	Remark
1	VFK1145A	Back tension meter	
2	VFK1149A	Post driver	
3	VFK71A	Dial torque gauge (1.5cN·m)	(150g)
4	VFK1191A	Dial torque gauge (0.45cN·m)	(45g)
5	VFK1152	Dial torque gauge adapter	
6	VFK0357	Eccentric Screwdriver (1.5mm)	
7	VFK1154	Post Height Fixture	
8	VFK1348	Neutral Position Plate	for L Cassettes
9	VFK1155	REV Position fixture (silver)	
10	VFK1156	Play Position fixture (black)	
11	VFK1208	Neutral Position Plate(B/hole)	
12	VFK1150	Nut driver (5.5mm)	
13	VFK1151	Nut driver (2.5mm)	
14	VFK1188A	Dial Tension Gauge (300mN)	(30g)
15	VFK0948	Check Light	
16	VFK0749	Froiral Grease	for Plastics
17	MOR265	Morlytone Grease	for Metal
18	VFK1146	Philips Driver (fine) (00-75)	
19	VFK1147	Philips Driver (fine) (00-100)	
20	VFK1148	Hex Driver (1.5mm)	
21	VFK1178	Hex Driver (0.89mm)	
22	VFK1179	Hex Driver (0.71mm)	
23	VFK1190	Hex Wrench	(0.4-3kgf·cm)
24	VFK1209A	Torque Driver (4cN·m-30cN·m)	(0.4kgf·cm -3kgf·cm)
25	VFK1375	Post Axis Driver	
26	VFK1300	A/D Board (Quatech DAQ-12)	
27	VFM3580KL	DVCPRO Alignment tape (No.1)(for NTSC)	
28	VFM3581KL	DVCPRO Alignment tape (No.2)(for NTSC)	
29	VFM3582KL	DVCPRO Alignment tape (No.3)(for NTSC)	
30	AJ-CL12MP	Cleanig Tape	SALES Route
31	VFK1481B	LISTA software	
32	VFK1186	LISTA cable	
33	VFK0369	Tweezers	
34	VFK0371	Radio Prier	
35	VFK0372	Cutter Prier	
36	VFK0337	Philips Driver	
37	VFK0338	Trimmer Adustment Driver	
38	VFK1339	Tape Sensor Adjustment Cassette	
39	VFK0906	Lubricating Oil	
40	VFK1304A	Flash memory version up Tool	
41	VFK1590	CPLD Writer	

<div>1</div> <div>VFK1145A (T2-M30-P)</div> <div>Back tension meter</div> <div></div>	<div>2</div> <div>VFK1149A (2.5mm)</div> <div>Post driver</div> <div></div>	<div>3</div> <div>VFK71A 1.5cN-m (150g)</div> <div><div>4</div><div>VFK1191A 0.45cN-m (45g)</div></div> <div><div>Dial torque gauge</div><div></div></div>	
<div>5</div> <div>VFK1152</div> <div>Dial torque gauge adapter</div> <div></div>	<div>6</div> <div>VFK0357</div> <div></div>	<div>7</div> <div>VFK1154</div> <div>Post Height Fixture</div> <div></div>	<div>8</div> <div>VFK1348</div> <div>Neutral Position Plate (for LCassettes)</div> <div></div>
<div>9</div> <div>VFK1155</div> <div>REV Position fixture (silver)</div> <div><div>10</div><div>VFK1156</div><div>Play Position fixture (black)</div><div></div></div>	<div>11</div> <div>VFK1208</div> <div>Neutral Position Plate (B/hole)</div> <div></div>	<div>12</div> <div>VFK1150</div> <div>Nut driver (5.5mm)</div> <div></div>	<div>13</div> <div>VFK1151</div> <div>Nut driver (2.5mm)</div> <div></div>
<div>14</div> <div>VFK1188A 30mN (30g)</div> <div>Dial Tension Gauge</div> <div></div>	<div>15</div> <div>VFK0948A</div> <div>Check Light</div> <div></div>	<div>16</div> <div>VFK0749</div> <div></div>	<div>17</div> <div>MOR265</div> <div></div>
<div>18</div> <div>VFK1146 (00-75)</div> <div><div>19</div><div>VFK1147 (00-100)</div><div>Philips Driver (fine)</div><div></div></div>	<div>20</div> <div>VFK1148 (1.5mm)</div> <div><div>21</div><div>VFK1178 (0.89mm)</div><div><div>22</div><div>VFK1179 (0.71mm)</div><div>Hex Driver</div><div></div></div></div>	<div>23</div> <div>VFK1190(0.4-3kgf·cm)</div> <div>Hex Wrench</div> <div></div>	<div>24</div> <div>VFK1209A 4-30cN-m (0.4-3kg)</div> <div>Torque Driver</div> <div></div>

25 VFK1375 Post Axis Driver 	26 VFK1300 AD Board DAQ-12 (Quatech) 	27 VFM3580KL 28 VFM3581KL 29 VFM3582KL Alignment tape 	30 AJ-CL12LP Cleaning Tape 
31 VFK1481B LISTA software 	32 VFK1186 LISTA cable 	33 VFK0369 Tweezers 	34 VFK0371 Radio Prier 
35 VFK0372 Cutter Prier 	36 VFK0337 Philips Driver 37 VFK0338 Trimmer Adjustment Driver 	38 VFK1339 Tape Sensor Adjustment Cassette 	39 VFK0906 Lubricating Oil 
40 VFK1304A Flash Memory Version up Tool (VFK1304 includes the flexible cable VWJ20E5500L0.)  Flexible cable Part No.:VWJ20E5500L0	41 VFK1590 CPLD WRITER 		

2. Alignment Tape

2-1. VFM3580KM (NTSC) (25M adjustment tape)

TIME (min.)	Video		PCM audio		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz -20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bowtie (500 K)	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
22:00	Pulse & bar	Y/C timing				
26:00	Area marker	Video start timing			-----	-----

2-2. VFM3581 (NTSC) (mechanism (LISTA) adjustment tape)

TIME (min.)	Video		PCM audio		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3582KM (NTSC) (mechanism (X-value) adjustment tape)

TIME (min.)	Video		PCM audio		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

3. List of Recommended Measuring Instruments

Model No. (example)	Name	Remarks
TSG1910 (NTSC)	NTSC analog composite signal generator (with CF OUT)	techtronics
1760 (op. SC) or 1780R	SCH meter (NTSC)	
	Waveform monitor (NTSC)	
	Vector scope (NTSC)	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio analyzer	

4. Maintenance

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms uses wear parts, and their wear and deterioration causes troubles. Dust and dirt also can impair stable operation. For this reason it is important to not just perform repair at the time of trouble, but to perform suitable maintenance at regular intervals.

	Part name	Part No.	Hours of use (unit: hours)				
			1,000	3,000	6,000	9,000	12,000
—	Cleaning of the travel system	----	C: Every 500 hours				
—	Mechanical chassis unit	VXY1621Z1					R
1	Drum Unit	VEG1568		R	R	R	IM
2	Pinch Arm Unit	VXL2835	R, G	R, G	R, G	R, G	IM
3	Cleaning Arm Unit	VXL3027	R	R	R	R	IM
4	S-reel motor Unit	VEM0686			R		IM
5	T-reel Motor Unit	VEM0687			R		IM
6	Thrust Screw Unit	VXQ0556			R		IM
7	S-loading Arm Unit	VXL2812			R		IM
8	T-boat Unit	VXA6379			R		IM
9	S-post base Unit	VXA6025			R		IM
10	Tension arm Unit	VXL2832			R		IM
11	Mode switch Unit	VES0918			R		IM
12	A/C Head	VED0419					IM
13	Loading Motor Unit	VEM0645					IM
14	Motor drive Motor Unit	VEM0585					IM
15	Pinch Solenoid	VSJ0227					IM
16	S-braking solenoid	VSJ0216					IM
17	T-braking Solenoid	VSJ0216					IM
18	Long-time Detection Switch Unit	VXA6199					IM
19	Cleaner Solenoid	VSJ0226					IM
20	Main Cam Gear	VDG1168					IM
21	Front-loading motor	VXA5597					F,IM
22	Slot-in unit	VXA6593					R
—	Fan motor	VRF0216	Exchange after every 10,000 h of energization.				

- The maintenance time shown in the above chart is the recommendation for indoor use. The time for exchange is influenced by temperature, humidity, dust and so on.
- Exchange of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.

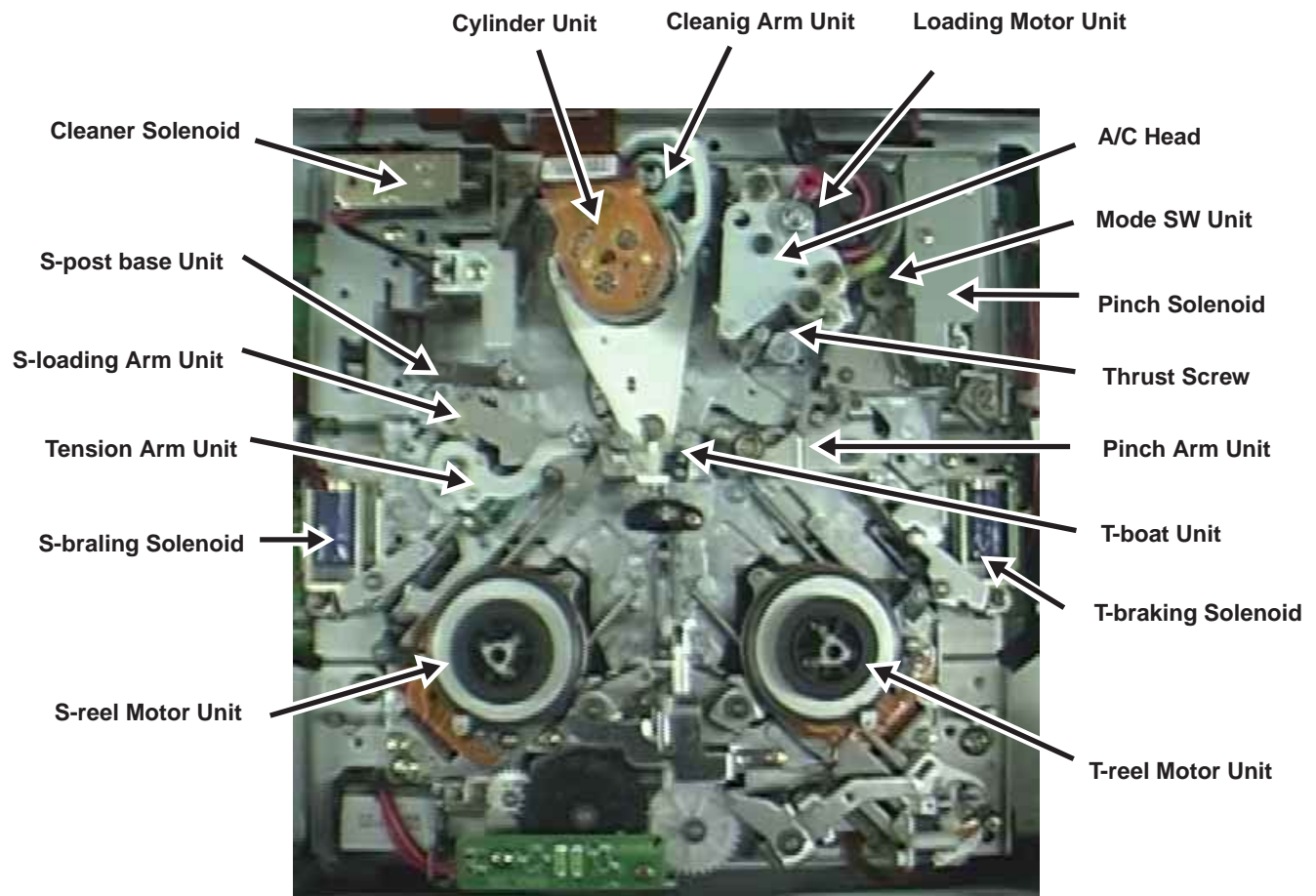
R : Assembly subject to exchange.

G : At the time of exchange, wipe off the old grease and apply new grease (Morlytone grease).

IM: Included in the mechanical chassis unit.
When the mechanical chassis unit is not exchanged, exchange as a single part is required.

F : Included in the front-loading unit.

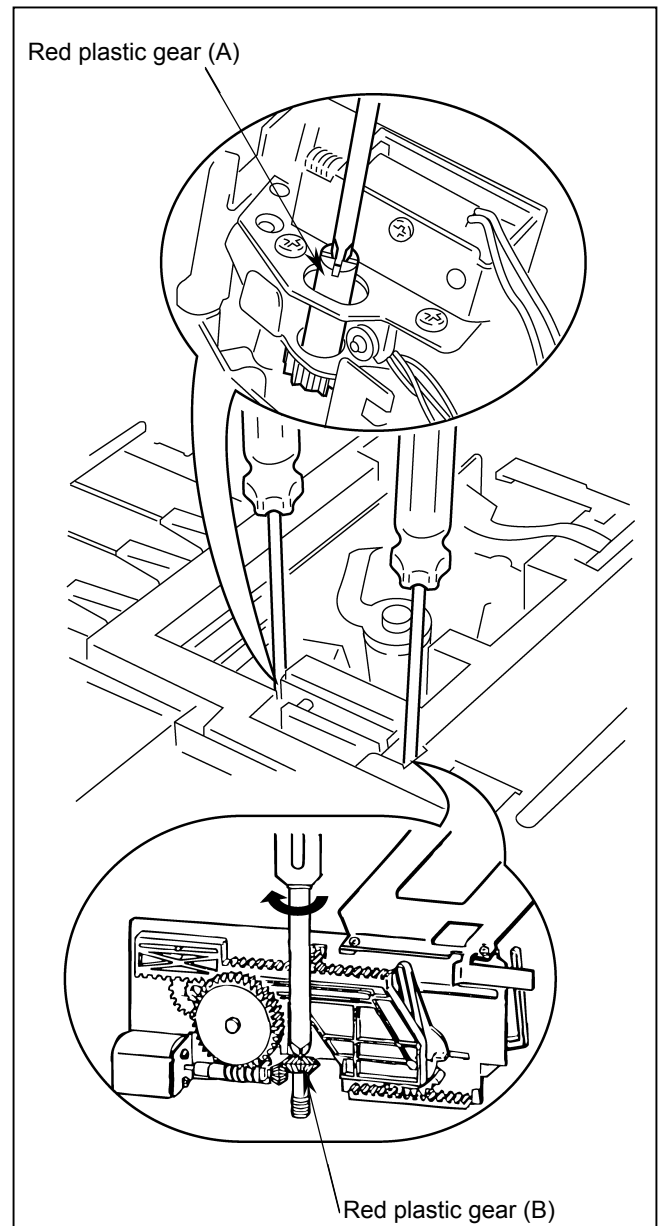
4-2. Layout of the Maintenance Parts



5. Manual Tape Ejection (Emergency Eject)

Turn the tape can not be ejected by normal operation because of trouble of the electrical system or the mechanical system, the tape can be removed from the unit manually by means of the following operation.

1. Turn off the power and remove the upper cover.
2. Use a cross-slot screw driver to push in the red plastic **gear (A)** and turn it in **counterclockwise**. At this time, the tape winding mechanism operates at the same time, so that the latch sound will be heard, but turning for about 10 turns should be done in this condition. (Excessive turning can place a load onto the tape and can cause tape damage.)
3. Confirm unloading for each post and that the tape has been stored completely in the cassette.
4. When the tape has returned completely into the cassette case, push the red plastic **gear (B)** at the front of the cassette down motor work gear, and turn it clockwise to remove the cassette. (Take care that the tape is not caught when the cassette lid closes.)



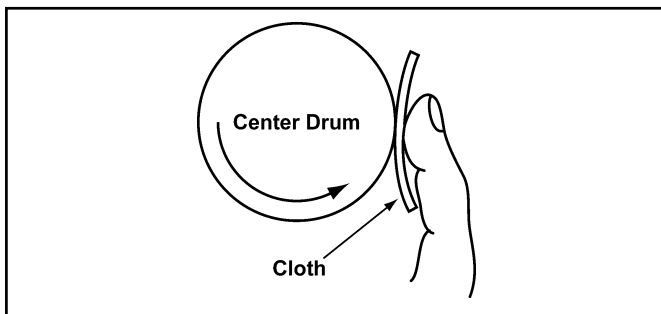
6. Cleaning Method

Notes: Turns power off during cleaning.

Make sure the power is OFF before cleaning. Use ethanol (more than 99% purity) as cleaning liquid.

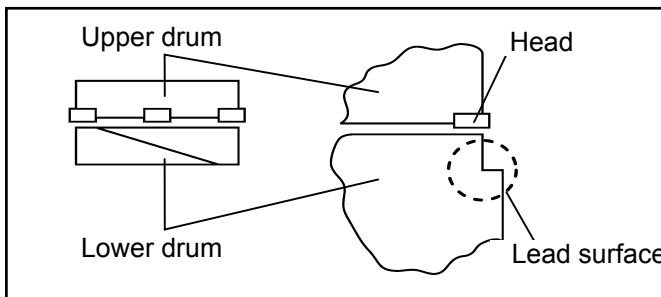
6-1. Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by bared hand. First wipe with a cloth dipped by cleaning liquid. Then wipe with dry cloth.



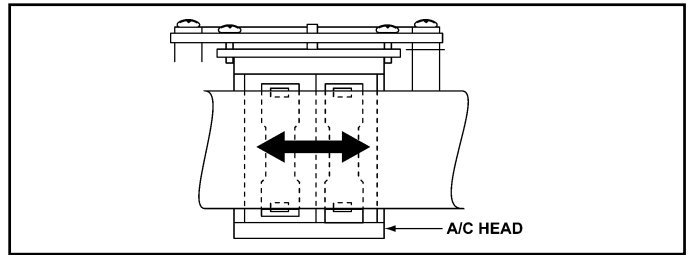
6-2. Cleaning of cylinder Lead: (Weekly)

Be careful not to touch a head chip. Clean the Cylinder lead with a tooth pick.



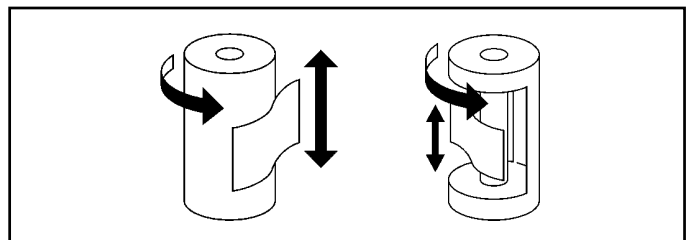
6-3. Cleaning of A/C Head: (weekly)

Wipe the A/C head with a cloth dipped by cleaning liquid. Wipe again with a dry cloth.



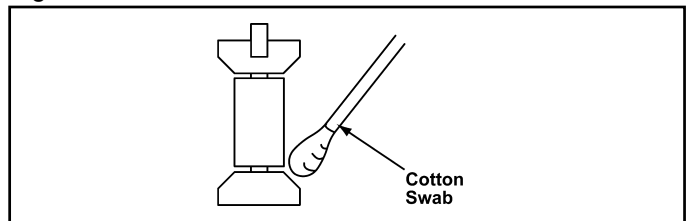
6-4. Cleaning of Pinch Roller and Capstan: (Weekly)

Wipe the Pinch Roller and Capstan with a cloth dipped by cleaning liquid.



6-5. Cleaning of Post: (Weekly)

Wind a cloth on a pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry cloth again.



Notes:

- The above cleaning cloth also is supplied by the business department with the following part No. Part No.: VZZ0095
- Never use cloth contaminated by oil or sweat. Always cut off the required amount of cloth and discard it after use.

7. DIAG-MENU Display

The **DIAG-MENU** is the menu for investigating the status of the VTR, and it has the warning display (WARNING) and the hour meter display (**HOURS METER**).

7-1. DIAG-MENU Operation Method

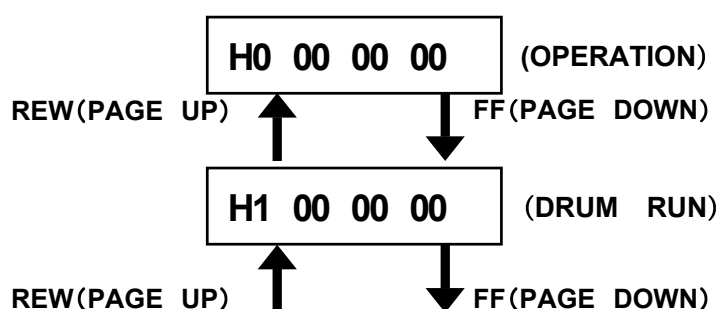
1. While pressing the “**EJECT**” button on the front panel , set the “**LOCAL/MENU/REMOTE**” sw to “**MENU**”.
2. “**DIAG-MENU**” will be displayed on the video monitor (VIDEO OUT2).
3. The display will be switched alternately by pressing the **REW (PAGE UP)** button and the **FF (PAGE DOWN)** button.
4. The **DIAG-MENU** will be closed when “**LOCAL/MENU/REMOTE**” SW is switched to a position other than “**MENU**”.

7-2. Hours Meter Display

By pressing the “**PAGE**” and the “**DOWN**” button while hours meter is displayed, the hours meter for each item can be confirmed sequentially on the counter display (front panel).

DIAG-MENU		HOURS METER
Ser.	-----	
* H00	OPERATION	10000H
H01	DRUM RUN	20000H
H02	TAPE RUN	30000H
H03	THREADING	40000T
H11	DRUM RUN r	20000H
H12	TAPE RUN r	30000H
H13	THREADING r	40000T
END		

Video monitor



Counter display (front panel)

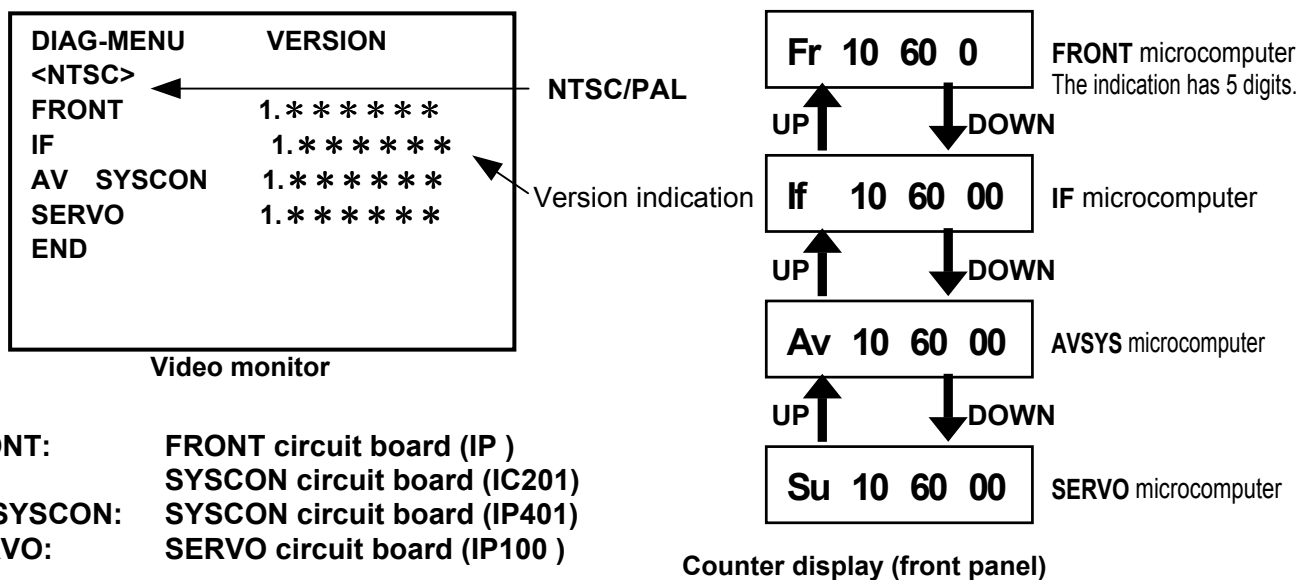
7-3. How to reset Hours Meter

When “DIP SW101-2” on the AV-SYSCON circuit board is set to “ON”, the items “H11,H12,H13” of ”HOURS METER” are reset to “0”.

1. Press the “PAGE” button and the “DOWN” button while hours meter is displayed and move the cursor to the “*” item to be reset.
2. When the “RESET” switch on the front panel is pressed, the data for the item where the cursor is located will be reset.
3. Return “DIP SW101-2” on the AV-SYSCON circuit board to “OFF”.

7-4. Version Display

By pressing "**PAGE**" and the "**DOWN**" button while the version is displayed, the software version for each item can be confirmed sequentially on the counter display (front panel).



8. Software Version Upgrade Method

8-1. General information for Software Version Upgrades

The AJ-HD130DC has microcomputer of which version is displayed on the diagnostic menu and PLDs. Please refer to the following table for the type of each IC.

Name	Type	Circuit board name	Ref No.
FRONT	Microprocessor	FRONT	IC65003
AV-SYSCON	FLASH Memory	AV-SYSCON	IP401
I/F	FLASH Memory	AV-SYSCON	IP201
SERVO	FLASH Memory	SERVO	IP100
PLD	EPROM	AUDIO PROCESS	IC103、IP104、IP302
PLD	EPROM	SYSCON	IP751
PLD	EPROM	REC/PB	IP533、IP585、IP586
PLD	EPROM	V OUT	IP2、IP400、IP600
PLD	EPROM	DOWN CONVERTER	IP304
PLD	EPROM	SDI	IP281 、 IP592 、 IP691 、 IP774、IP801、IC591、IC641
PLD	EPROM	SERVO	IP500

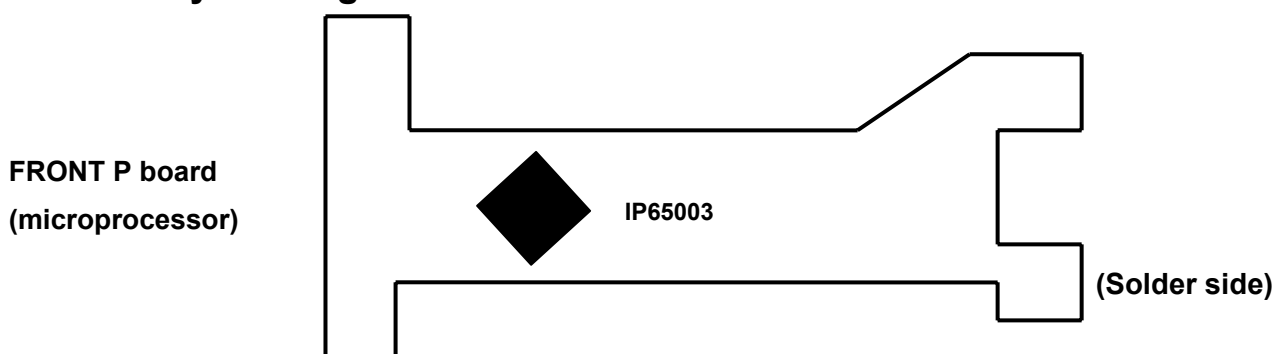
The microprocessor on the FRONT circuit board can not be rewritten, and it is soldered onto the circuit board. To upgrade the software, replace it by a new IC.

The version of the FLASH memory (microcomputer with the flash memory) on the AV-SYSCON and the SERVO circuit board can be upgraded by writing software. The writing procedure is shown in this item.

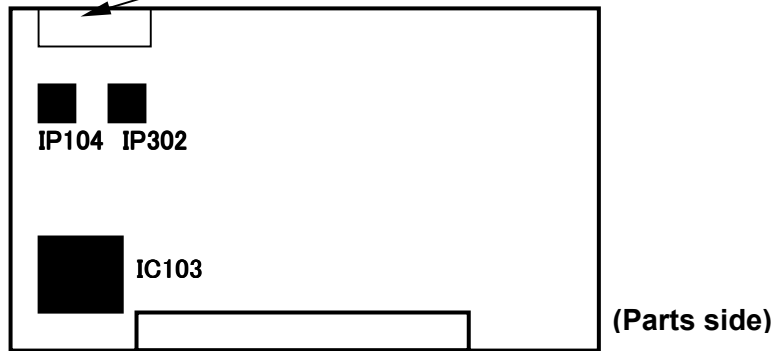
A special jig is used to upgrade the version of the PLD on each circuit board. Connect the jig to the connector on each circuit board and use the PLD writing software. The connector reference numbers and the PLD manufacturers are shown below.

Circuit board name	Ref No.	Connector	Number of pins	PLD manufacturer
AUDIO PROCESS	IC103、IP104、IP302	P4100	8P	ALTERA
AV-SYSCON	IP751	P751	8P	XILINX
REC/PB	IP533、IP585、IP586	P3003	8P	ALTERA
V OUT	IP2、IP400、IP600	P3	8P	ALTERA
DOWNCONV	IP304	P300	8P	ALTERA
SDI	IP281 、 IP592 、 IP691 、 IP774 、 IP801、IC591、IC641	P3003	8P	ALTERA
SERVO	IP500	P500	8P	XILINX

8-2. Parts Layout Diagram

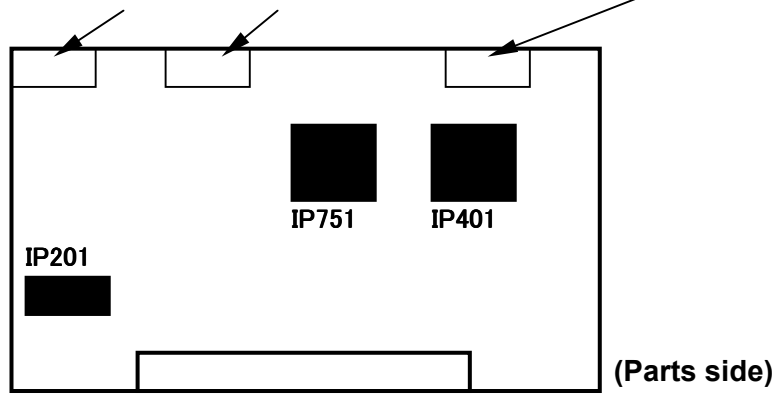


Tool connection connector (P4100)



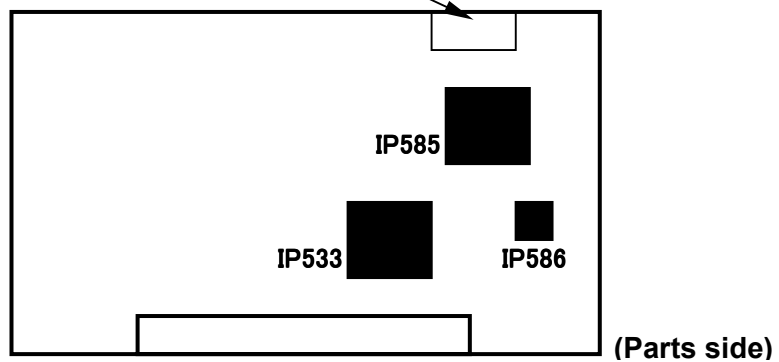
AUDIO PROCESS P board
(flash memory & PLD)

Tool connection connector (P251) Tool connection connector (P751) Tool connection connector (P401)



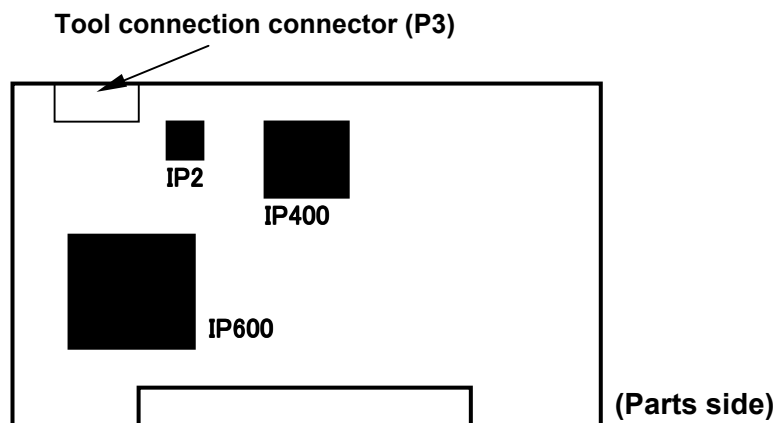
AV-SYSCON P board
(flash memory & PLD)

Tool connection connector (P3003)

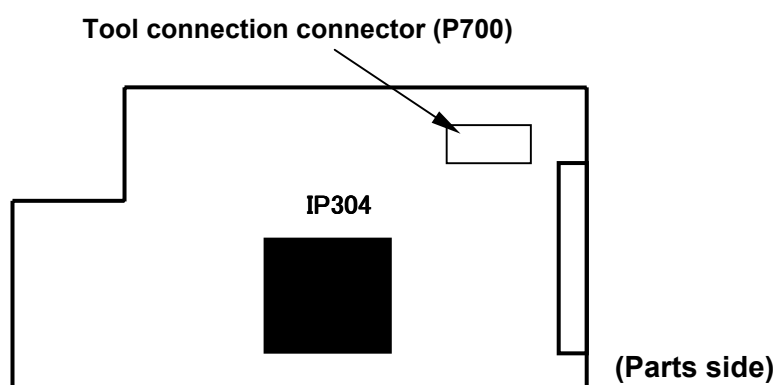


REC/PB P board (PLD)

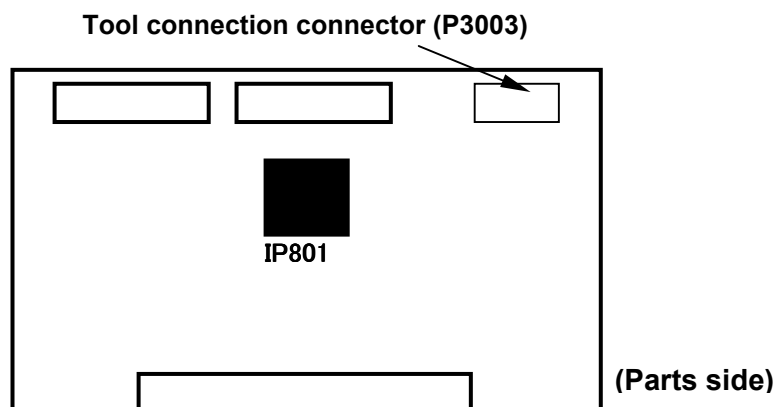
**V OUT P board
(PLD)**



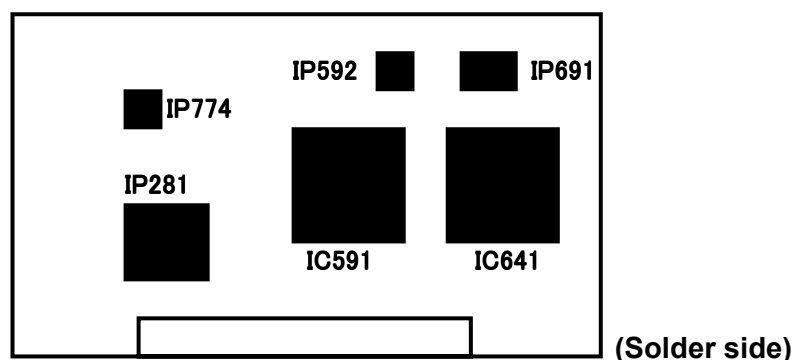
**DOWNOCNV P board
(PLD)**

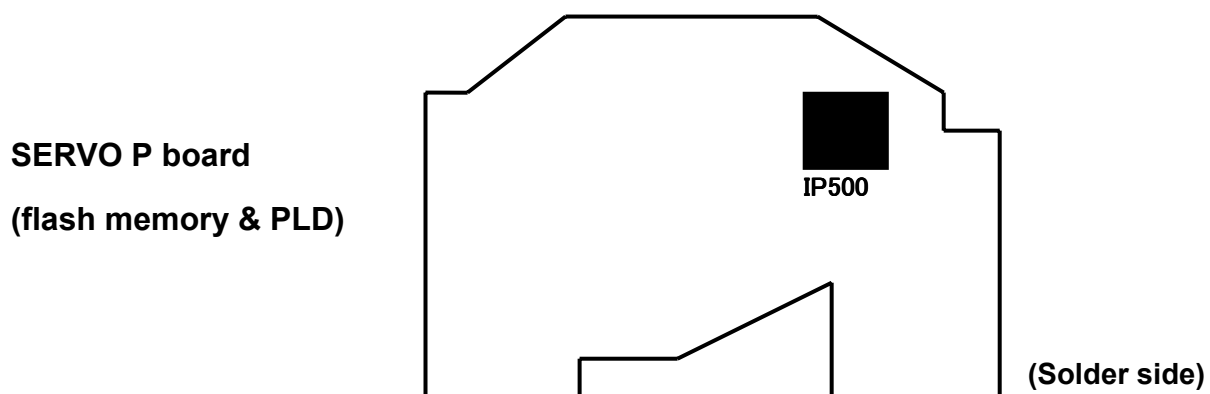
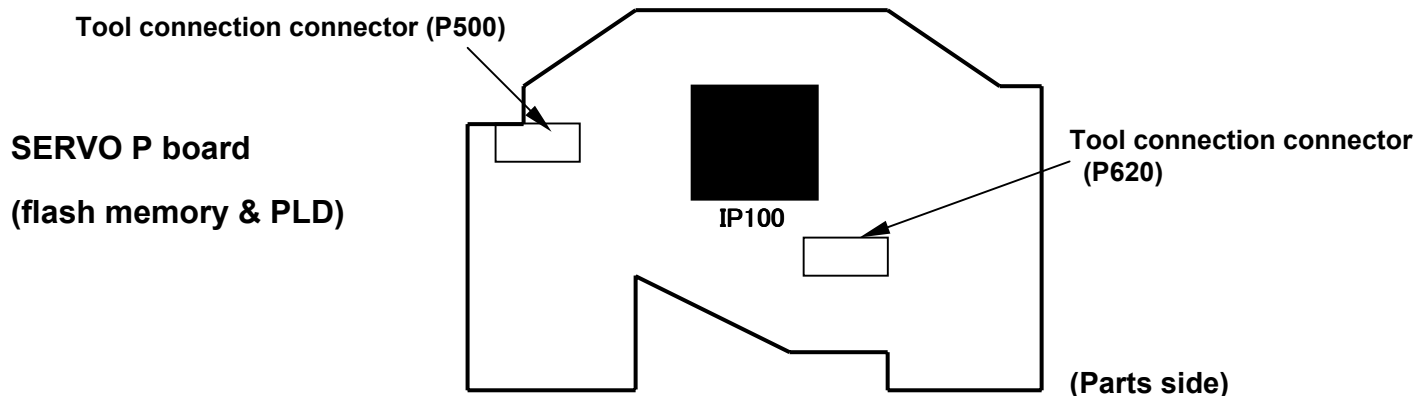


**SDI P board
(PLD)**



**SDI P board
(PLD)**





8-3. Version Upgrade for the Microcomputer with the Flash Memory

The AV-SYSCON circuit board and the SERVO circuit board has a microcomputer (AV-SYSCON, I/F, SERVO) with the flash memory.

To upgrade the version of the AV-SYSCON and the I/F microcomputer, connect the "Flash memory version upgrade jig (VFK1304A)" to the jig connector and use the "Flash memory version upgrade software (VFK1248E)" according to the following procedure. Use the "Servo version upgrade software (VFK1503)" to upgrade the version of the SERVO microcomputer.

8-3-1. Preparations for the Version Upgrade

1. Items required for flash memory writing

Flash memory version up software **VFK1248E**

Note: The old version Software (VFK1248A) can not be used.

Flash memory version up tool **VFK1304A**

Personal computer compatible with Windows 95/98

RS-232C cable (9-pin cross-cable)

2. Installation of the flash memory version up software

Copy the following file to arbitrary directory on a personal computer compatible with Windows 95/98.

(After execution of the software, an ".INI" file will be created in the same directory as the program file, but this may be left or may be deleted as desired)

Program file **VSI2312E.EXE**

3. Setting of the flash memory version upgrade jig

Confirm the switch settings for the "flash memory version up tool (VFK1304A)".

SW1-1: ON

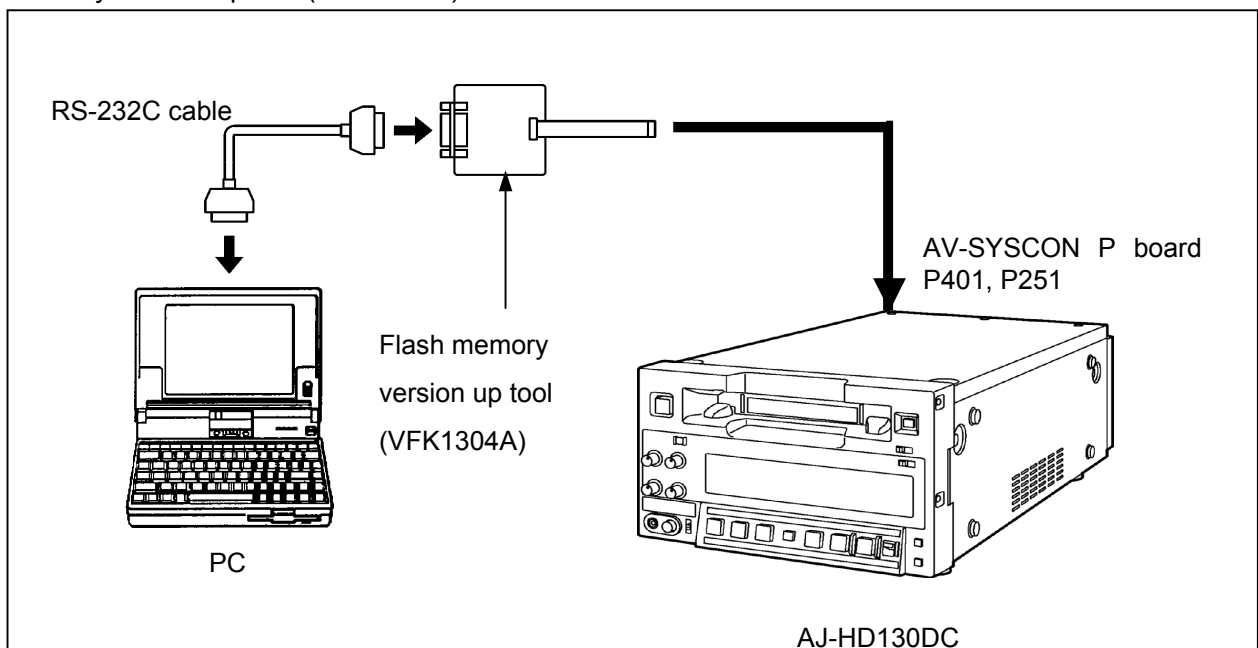
SW1-3: OFF

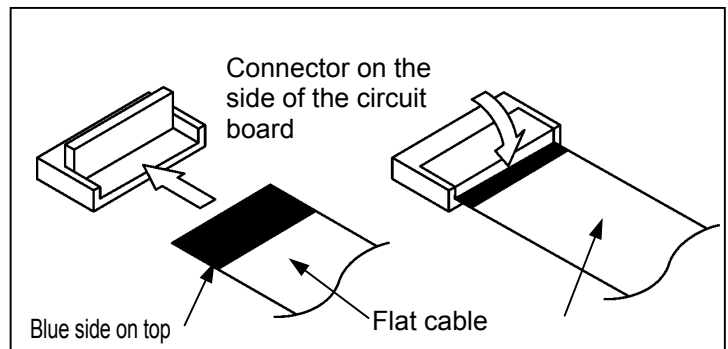
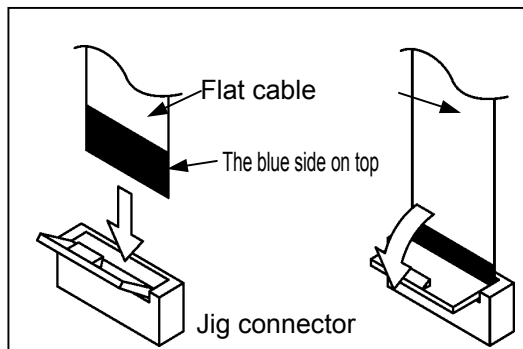
SW1-2: ON

SW1-4: OFF

4. Connection of the flash memory version up tool

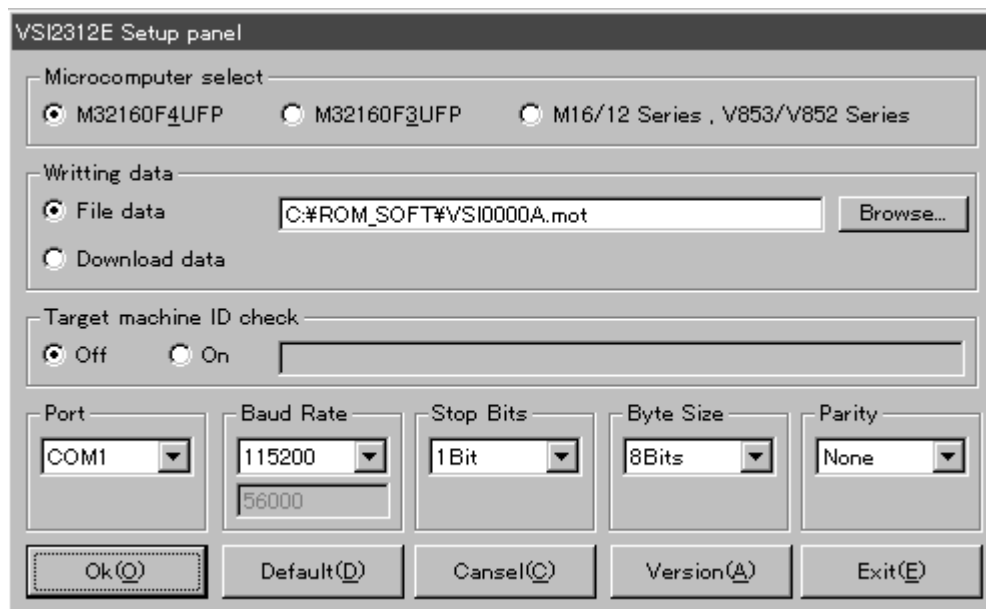
Turn off the power of the AJ-HD130DC and the personal computer and then connect them as shown in the following figure. Do not confuse the connecting direction (rear,front) for the flat cable of the flash memory version up tool (VFK1304A).





8-3-2. Version Upgrade Procedure

1. Boot up the personal computer in the condition where "8-3-1. Version Upgrade Preparations "has been completed.
2. Turn on the power of the AJ-HD130DC.
3. Boot up the flash memory version up software.
(Double-click the program file "**VSI2312E.EXE**", which had been copied to arbitrary directory, or create a shortcut to "**VSI2312E.EXE**". and double-click the shortcut.)
4. When this program is started, the "Setup Panel" will open as shown below.



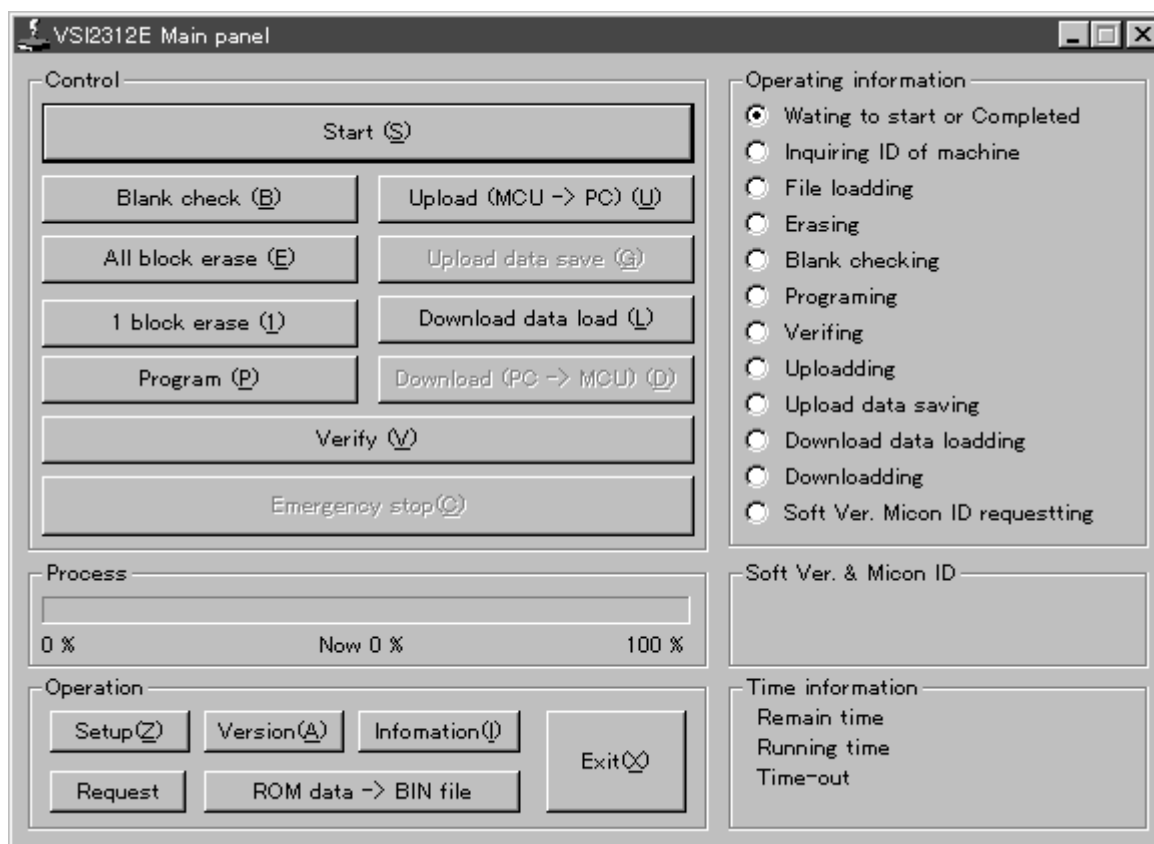
5. Perform the following settings on the "Setup panel".

- ☐ Microcomputer select..... **M32160F4UFP**
- ☐ Writing data **File data**

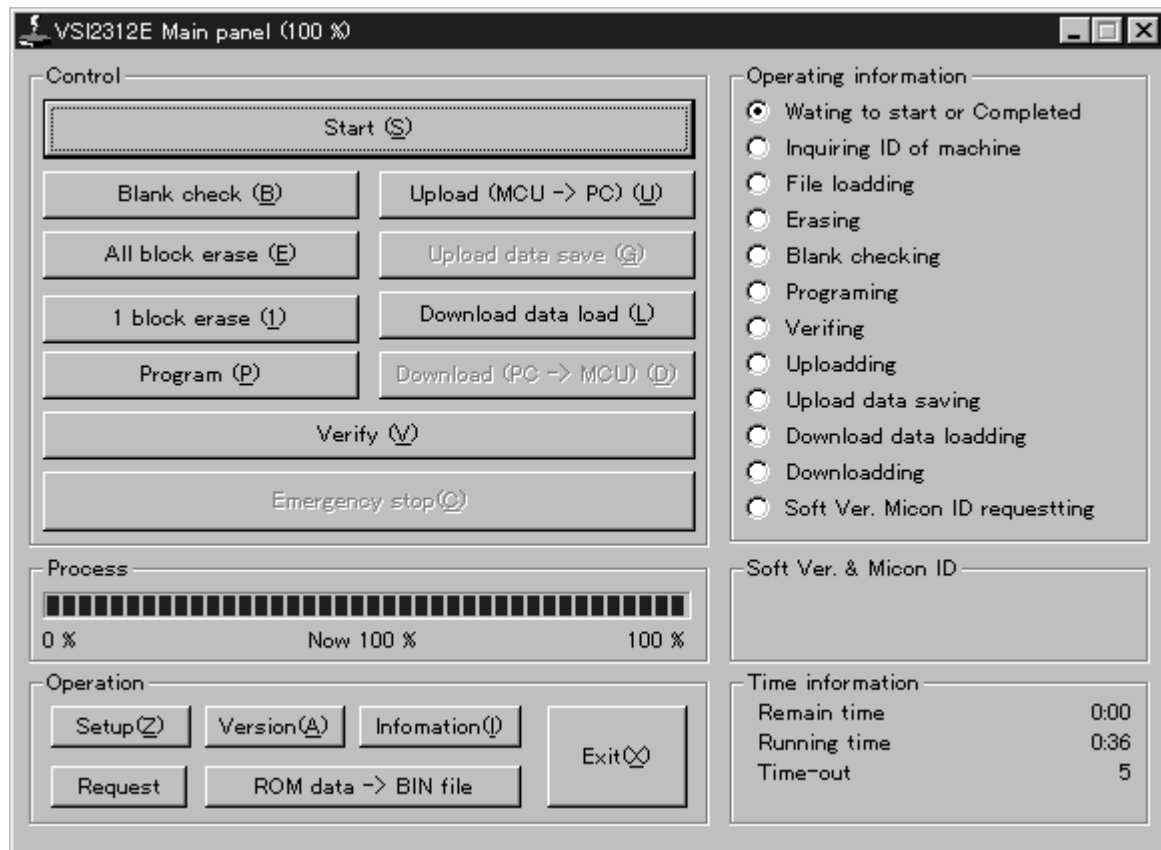
Enter the new software (**XXXX.mot**) for the version upgrade with the full path. You can also use the "**Browse ...**" button on the "Setup Panel" to select the file name and the location of the new software.

- ☐ Port Set the port to which the RS-232C cable of the personal computer is connected.
- ☐ Baud Rate **115200**
- ☐ Stop Bits **1Bit**
- ☐ Byte Size **8Bits**
- ☐ Parity **None**

6. When the setting on the "Setup Panel" is completed, click "Ok (O)". The "Main panel" will be opened as shown below.



7. Click "Start (S)" on the "Main panel". (If you want to quit here, click "Exit". If you want to return again to the "Setup panel", click "Setup (Z)").
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the "Process" indicator. If the indicator doesn't so advance for some reason, click "Emergency stop (C)" to stop the work. Connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, "Process" indicator reaches 100%, and a black dot appears for "Waiting to start or Completed" of "Operating information". (Next page)



10. When the above status is gotten, click "**Exit (X)**" to end the program.
11. When the version upgrade is completed, turn off the AJ-HD130DC power and remove the version up tool.
12. Turn on the power of the AJ-HD130DC again and confirm the version on the "**DIAG MENU**".

8-4. Version Upgrade for the SERVO Microcomputer with Flash Memory

The SERVO microcomputer of the **F1:SERVO** circuit board has a built-in flash memory. For the software version up, connect the "**Flash memory version up tool (VFK1304A)**" to the tool connection connector and use the "**Servo Version up software (VFK1503)**" according to the following procedure.

8-4-1. Preparations for the Version Upgrade

1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version upgrade software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four files.)

Version up software (VFK1503) "fw103u.exe"

Servo microcomputer software "vsiXXX.obf"

"vsiXXX.bat"

"vsiXXXX.ex"

3. Confirm the switch settings for the flash memory version up tool (VFK1304A).

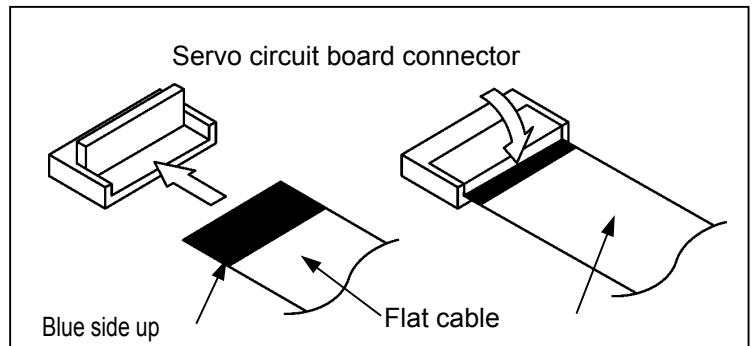
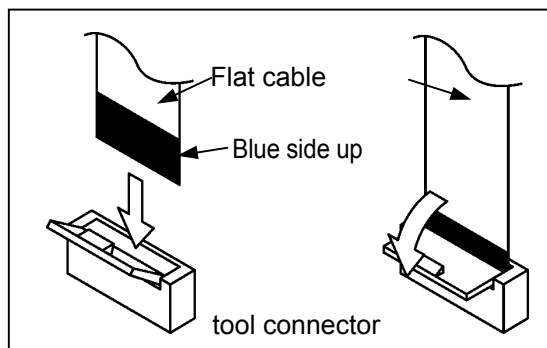
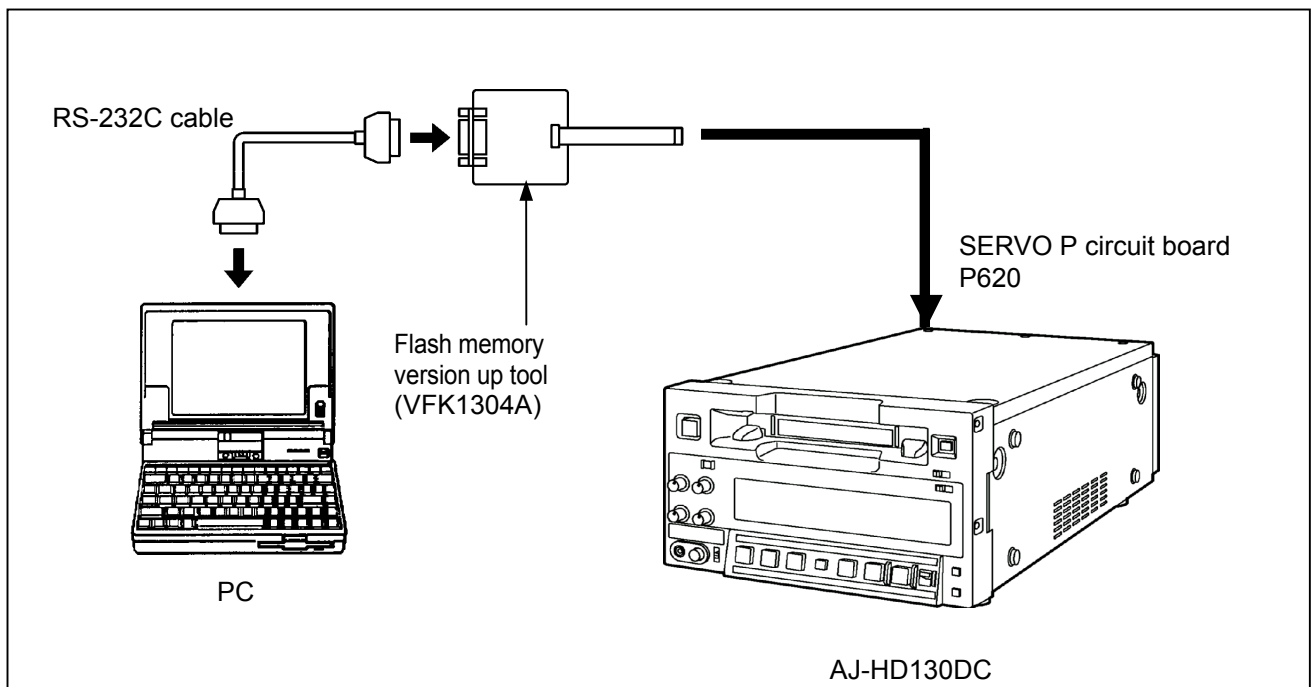
SW1-1: ON

SW1-3: OFF

SW1-2: ON

SW1-4: OFF

4. Connect the AJ-HD130DC, the "Flash memory version up tool (VFK1304A)", and the personal computer as shown below. Do not confuse the connecting direction (rear,front) for the flat cable of the tool (VFK1304A).



5. Turn on the AJ-HD130DC.
6. Execute the **"VSIXXX.bat"** copied to the personal computer. It also can be done directly on Windows. (During execution, the file "servo.exe" will be created, but this may be left in the directory without any problems.)
7. When the following screen is displayed, enter **"Y"** and press **"ENTER"**. (During program writing, the progress is shown on the display of the personal computer.)

```
/=== MNT03004 FLASH ROM VERSION UP SOFTWARE ===/  
  
  1 個のファイルをコピーしました。  
  
/=== Initializing ===/  
Could not record flash memory exchange record.  
Do you continue ? Y/N > Y_
```

8. Writing is completed when the following screen appears.

```
Ex format file analysis ...  
start loading  
  
Zero writing before erase .  
Erase block .  
0x00002000 - 0x00003fff writing  
0x00004000 - 0x00005fff writing  
0x00006000 - 0x00007fff writing  
0x00008000 - 0x00009fff writing  
0x0000a000 - 0x0000bfff writing  
0x0000c000 - 0x0000dfff writing  
0x0000e000 - 0x0000ffff writing  
0x00010000 - 0x00011fff writing  
0x00012000 - 0x00013fff writing  
0x00014000 - 0x00015fff writing  
0x00016000 - 0x00017fff writing  
0x00018000 - 0x00019fff writing  
0x0001a000 - 0x0001bfff writing  
0x0001c000 - 0x0001dfff writing  
  
Load finished  
fw103> q
```

9. Turn off the AJ-HD130DC power and disconnect the connected cable.
10. After completion of the version up, Turn off the AJ-HD130DC power and disconnect the version upgrade jig.
11. Turn on the AJ-HD130DC power again and confirm the version on the **"DIAG MENU"**.



When AUTO OFF and/or warnings occur, following message is displayed.

No.	AUTO OFF	Superimpose display	Meanings
E-10	○	FAN STOP	The fan motor has stopped. After stop, alternate display until AUTO OFF.
E-09		NO RF	The status of no RF signal has continued for more than one second at the Play mode.
E-08		LP TAPE	The LP format has been detected at the PLAY mode.
E-00		SERVO NOT LOCKED	SERVO UNLOCK has continued for three seconds.
E-01		LOW RF	LOW RF has continued for more than one second at the Play mode.
E-02		HIGH ERROR RATE	A high error rate (red lamp lit) has continued for more than one second at the Play mode.
—d—	* 1	DEW	Dew has been detected.
E-51	○	FRONT LOAD ERROR	The reel on the winding side has not wound the tape during the tape beginning and/or end processing operation during loading (half position).
E-29	○	FRONT LOAD MOTOR	The cassette has not moved up, although six seconds have passed after switching to EJECT mode.
E-31	○	LOADING MOTOR	Unloading operation has not been completed within six seconds.
E-52	○	W-UP REEL NOT ROTA	After cassette insertion, in the status before detection of tape length, the T-side reel has not wound tape during tape running.
E-53	○	WINDUP ERROR	After detection of the tape length, the tape length wound onto the T-side reel and the tape unwound from the S-side reel differ abnormally.
E-55	○	UNLOAD ERROR	The tape has not been wound at the time of unloading.
E-57	○	S-FF/REW TIMEOVER	The tape beginning and end processing operation has not been ended.
E-59	○	DRUM ROTA TOO SLOW	The drum speed is abnormally low.
E-60	○	DRUM ROTA TOO FAST	The drum speed is abnormally high.
E-61	○	CAP ROTA TOO SLOW	The speed of the capstan motor is abnormally low.
E-64	○	S REEL TOO FAST	The speed of the S-side reel motor is abnormally high.
E-67	○	T REEL TOO FAST	The speed of the T-side reel motor is abnormally high.
E-69	○	T REEL TORQUE ERR	An abnormal torque has been detected for the T-side reel motor.
E-70	○	S REEL TORQUE ERR	An abnormal torque has been detected for the S-side reel motor.
E-71	○	CAP TENSION ERROR	Abnormal S-side tension has been detected in capstan mode.
E-72	○	REEL TENSION ERROR	Abnormal S-side tension has been detected in reel mode.
E-73	○	REEL DIR UNMATCH	The T-side reel motor has reversed direction.
E-6A		(No display)	Abnormal serial communication has occurred between FRONT and IF.
E-6B		FRP ERROR	An error has occurred for FRP or EXT FRP.
E-bA	○	BATTERY	The battery has been exhausted.

* 1) When "152 HUMID OPE" in the SETUP menu is ON, operation is possible. At this time, the front alternates between counter display and DEW display.

10. Service Menu

10-1. Service Menu Operation Method

1. Set "DIP SW101 BIT2" on the SYSCON circuit board to ON.
2. Set the LOCAL/MENU/REMOTE switch on the front panel to MENU.
3. Select the item of the main menu.
 - * **DOWN** button: * will move up on the monitor.
 - * **UP** button: * will move down on the monitor.
 - * **MODE** button: will move to a submenu.

Note: Menu operation will be effective when the **REC INHIBIT** switch on the front panel is **OFF**, and VTR operation will be executed when this switch is set to ON.

4. Submenu operation
 - * **DOWN** button: * will move up on the monitor.
 - * **UP** button: * will move down on the monitor.
 - * **PAGE + DOWN** button: * will shift to the preceding page on the monitor.
 - * **PAGE + UP** button: * will shift to the following page on the monitor.
 - * **PAGE + MODE** button: will move to the main menu.

5. Data setting

- | | | |
|--------------------|---|-------------------------------------------------------|
| • A00 SERVO ADJUST | } | : The each value is set with pressing the SET button. |
| • B00 RF PB | | |
| • C00 RF PB | | |
| • D00 EQ RP13 | | |
| • E00 EQ RP24 | | |
| • F00 VIDEO ADJUST | } | : The data are set each time when they are changed, |
| • G00 AUDIO ADJUST | | |
| • H00 OTHER ADJUST | | |

6. Menu end

- * Set the LOCAL/MENU/REMOTE switch on the front panel to LOCAL or to REMOTE.
- * Set **DIP SW101 BIT2** on the SYSCON circuit board to **OFF**.

10-2. Service Menu Contents

A00:SERVO ADJUST

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
A01	T TORQUE	-128 0 127	The offset value for the T-reel motor torque is corrected. Operation: ① Move the cursor to this item. ② Press [MODE]. ③ Set the adjustment value with [+] or [-]. ④ Complete with [SET] or move to another item.	• Accepted only in EJECT status.
A02	S TORQUE	-128 0 127	The offset value for the S-reel motor torque is corrected. Operation: ① Move the cursor to this item. ② Press [MODE]. ③ Set the adjustment value with [+] or [-]. ④ Complete with [SET] or by moving to another item.	• Accepted only in EJECT status.
A03	PG SHIFT 100	0000 1649 4095	With alignment tape PG mono-multi automatic adjustment is performed. Operation: ① Move the cursor to this item. ② Insert a alignment tape. ③ Keep pressing the [MODE] key. (Automatic adjustment) ④ Adjustment has been completed when the adjustment value is displayed. ⑤ Release the [MODE] key. Note: The previous adjustment value will be displayed when the [MODE] key is released before the adjustment value is displayed.	
A04	PHOTO		Stop in cassette-down position for adjustment of the sensitivity of the sensor for detection of tape beginning and end. Operation: Move the cursor to this item. ① Press the [MODE] key. "ON" will be displayed. ② Insert a cassette for adjustment of the sensitivity of the sensor for detection of tape beginning and end. ③ Adjust VR. ④ Complete with [SET] or by moving to another item. " " no display	• Accepted only in EJECT status.
A05	TENSION		Performing loading operation for tension offset adjustment. Operation: ① Move the cursor to this item. ② Press the [MODE] key. "ON" will be displayed. ③ Adjust VR. ④ Complete with [SET] or by moving to another item. " " no display.	
A06	X VALUE SET		Adjustment of the X-value. Operation: ① Move the cursor to this item. ② Press the [MODE] key. "ON" will be displayed. ③ Complete with [SET] or by moving to another item. " " no display.	

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
A07	X VALUE 100	-128 0 127	Electric adjustment of the X-value. Operation: ① Move the cursor to this item. ② Insert a alignment tape. ③ Press the [MODE] key. The confirmation screen will be displayed. ④ Keep pressing the [MODE] key. (Automatic adjustment) To leave the confirmation screen without performing automatic adjustment, press [PAGE], [UP], or [DOWN]. * [PAGE]: Switching to the subitem screen (the cursor is at A07). * [UP]: Switching to the subitem screen (the cursor is at A08). * [DOWN]: Switching to the subitem screen (the cursor is at A06). ⑤ Adjustment has been completed when the adjustment value is displayed. ⑥ Release the [MODE] key. Note: The previous adjustment value will be displayed when the [MODE] key is released before the adjustment value is displayed.	
A10	CTL ADJ		Adjustment of the CTL level. Operation: ① Move the cursor to this item. ② Press the [MODE] key. "ON" will be displayed. ③ Complete with [SET] or by moving to another item.	
A11	TRK VAL 100	-128 0 127	Setting of the CTL tracking offset value. Operation: ① Move the cursor to this item. ② Press the [MODE] key. ③ Set the adjustment value with [+] or [-]. ④ Complete with [SET] or by moving to another item. Note: The set value becomes "0" when the subitem is left.	
A12	REC DATA SEL	<u>NORMAL</u> CW	Setting the RF recording signal. Operation: ① Move the cursor to this item. ② Press the [MODE] key. ③ Set the adjustment value with [+] or [-]. ④ Complete with [SET] or by moving to another item. Note: The set value becomes "NORMAL" when the subitem is left.	

____ : Factory default value

B00:RF PB

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
B01	RP PHS L1	-128 <u>20</u> 127	RPL1 playback phase Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the B55 default.

B02	RP PHS L3	$\begin{array}{c} -128 \\ \\ 20 \\ \hline 127 \end{array}$	RPL3 playback phase Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B03	RP PHS R1	$\begin{array}{c} -128 \\ \\ 20 \\ \hline 127 \end{array}$	RPR1 playback phase Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B06	RP PHS L4	$\begin{array}{c} -128 \\ \\ 20 \\ \hline 127 \end{array}$	RPL4 playback phase Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B07	RP PHS R2	$\begin{array}{c} -128 \\ \\ 20 \\ \hline 127 \end{array}$	RPR2 playback phase Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B10	RP MAG L3	$\begin{array}{c} -128 \\ \\ -20 \\ \hline 127 \end{array}$	RPL3 playback amplitude Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B11	RP MAG R1	$\begin{array}{c} -128 \\ \\ -20 \\ \hline 127 \end{array}$	RPR1 playback amplitude Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B12	RP MAG R3	$\begin{array}{c} -128 \\ \\ -20 \\ \hline 127 \end{array}$	RPR3 playback amplitude Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B13	RP MAG L2	$\begin{array}{c} -128 \\ \\ -20 \\ \hline 127 \end{array}$	RPL2 playback amplitude Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B14	RP MAG L4	$\begin{array}{c} -128 \\ \\ -20 \\ \hline 127 \end{array}$	RPL4 playback amplitude Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the B55 default.
B47	VITERBI MODE	OFF ON	Viterbi decoding control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
B48	ECC MODE	NORMAL OT OFF AL OFF	Error correction control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
B49	CONCEAL MOD	ON OFF	Error concealment control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
B50	ERROR MODE	FAST SLOW	Error sampling time Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
B53	AEQ MODE	OFF ON	Adaptive equalization function Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
B54	CW REC	OFF ON	RF recording signal Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
B55	DEFAULT		Backup data control Operation: ① Press the [SET] key. END/SAVE/LOAD/INIT LOAD will be displayed. ② Move the cursor with [UP] or [DOWN]. ③ Execute with the [SET] key. END : End without any action. SAVE : Save the present status. LOAD : Load a saved status. INIT LOAD : Set the adjustment values to the factory default values.	

____ : Factory default value

C00:RF REC

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
C01	REC CURRL1	-128 40 127	RPL1 recording current Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default.
C02	REC FREQL1	-128 40 127	RPL1 recording f-characteristic peration: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default.
C04	REC FREQL3	-128 40 127	RPL3 recording f-characteristic Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default.
C05	REC CURRR1	-128 40 127	RPR1 recording current Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default
C06	REC FREQR1	-128 40 127	RPR1 recording f-characteristic Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default
C07	REC CURRL3	-128 40 127	RPR3 recording current Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default
C08	REC FREQR3	-128 40 127	RPR3 recording f-characteristic Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the C55 default

Item		Set value	Setting contents and outline explanation of the function	Remarks
NO.	Name			
C09	REC CURRL2	-128 0 ├ 127	RPL2 recording current Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C10	REC FREQL2	-128 0 ├ 127	RPL2 recording f-characteristic Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C11	REC CURRL4	-128 0 ├ 127	RPL4 recording current Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C12	REC FREQL4	-128 0 ├ 127	RPL4 recording f-characteristic Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C13	REC CURRR2	-128 0 ├ 127	RPR2 recording current Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C14	REC FREQR2	-128 0 ├ 127	RPR2 recording f-characteristic Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C17	ADJ CH	L13 R13 L24 R24	Recording adjustment CH selection Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
C18	BPF SEL	LOW HIGH	Recording adjustment BPF selection Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
	VITERBI MODE	OFF ON	Viterbi decoding control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
C48	ECC MODE	NORMAL OT OFF AL OFF	Error correction control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
C49	CONCEAL MOD	ON OFF	Error concealment control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
C50	ERROR MODE	FAST SLOW	Error sampling time Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
C51	TRACKING MOD	ATF CTL	Tracking mode Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
C52	TRACKING VAL	-128 0 ├ 127	CTL tracking amount Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
C53	AEQ MODE	OFF ON	Adaptive equalization function Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
C54	CW REC	OFF ON	RF recording signal Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> No backup. Return to the factory default value is made at the time of return to the main item.
C55	DEFAULT		Backup data control Operation: ① Press the [SET] key. END/SAVE/LOAD/INIT LOAD will be displayed. ② Move the cursor with [UP] or [DOWN]. ③ Execute with the [SET] key. END : End without any action. SAVE : Save the present status. LOAD : Load a saved status. INIT LOAD : Set the adjustment values to the factory default values.	

_____ : Factory default value

D00:EQ RP13

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
D01	ENV L1	0 255	RPL1 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D02	ENV L3	0 255	RPL3 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D03	ENV R1	0 255	RPR1 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D04	ENV R3	0 255	RPR3 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D05	C L1-3	-31 0 31	RPL1 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D06	C L1-2	-31 0 31	RPL1 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D07	C L1-1	-80 -32 -4	RPL1 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D08	C L1 1	-80 -32 -4	RPL1 EQ tap coefficient (1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D09	C L1 2	-31 0 31	RPL1 EQ tap coefficient (2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
D10	C L1 3	-31 0 ├ 31	RPL1 EQ tap coefficient (3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D11	C L3-3	-31 0 ├ 31	RPL3 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D12	C L3-2	-31 0 ├ 31	RPL3 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D15	C L3 2	-31 0 ├ 31	RPL3 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D16	C L3 3	-31 0 ├ 31	RPL3 EQ tap coefficient (3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D17	C R1-3	-31 0 ├ 31	RPR1 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D18	C R1-2	-31 0 ├ 31	RPR1 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D19	C R1-1	-80 -32 ├ -4	RPR1 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D20	C R1 1	-80 -32 ├ -4	RPR1 EQ tap coefficient (1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D21	C R1 2	-31 0 ├ 31	RPR1 EQ tap coefficient (2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D22	C R1 3	-31 0 ├ 31	RPR1 EQ tap coefficient (3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D23	C R3-3	-31 0 ├ 31	RPR3 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D24	C R3-2	-31 0 ├ 31	RPR3 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
D25	C R3-1	-80 <u>-32</u> -4	RPR3 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> • To be done during PLAY/REC. • SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D28	C R3 3	-31 0 31	RPR3 EQ tap coefficient (3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> • To be done during PLAY/REC. • SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D29	VCO L13	0 <u>512</u> 1023	RPL13 VCO center f-voltage Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> • To be done during PLAY/REC. • SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D30	VCO R13	0 <u>512</u> 1023	RPR13 VCO center f-voltage Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> • To be done during PLAY/REC. • SAVE/LOAD/LSI TO SYS/INIT LOAD from the D55 default.
D31	ENV THR	0 <u>21</u> 255	Internal envelope detection threshold value Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D32	AGC THR	0 <u>82</u> 255	External envelope detection threshold value Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D33	STB DET	OFF <u>ON</u>	IC standby function Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D34	SPD TR HLD	OFF <u>ON</u>	Hold at the time of relative speed change Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D35	SPD TR THR	0 1 <u>2</u> 3	Relative speed change detection sensitivity Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D36	AUTO EQ SPD	0 <u>1</u> 2 3	Adaptive equalization response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D37	AGC SPEED	0 1 <u>2</u> 3	AGC response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D38	PLLA	0 <u>7</u> 31	PLL phase response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.
D39	PLLB	0 <u>7</u> 31	PLL frequency response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> • SAVE/LOAD/INIT LOAD from the C55 default.

Item		Set value	Setting contents and outline explanation of the function	Remarks
NO.	Name			
D42	VCO SPD	<u>SLOW</u> FAST	PLL frequency compensation speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
D43	VCO THR	0 46 127	PLL frequency monitor offset Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
D44	EYE THR	0 110 255	Signal quality discrimination threshold value 1 Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
D45	TUD	0 92 255	Signal quality discrimination threshold value 2 Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
D46	FDL	0 1 2 3	Fault detection sensitivity Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the C55 default
D47	VITERBI MODE	OFF <u>ON</u>	Viterbi decoding control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D48	ECC MODE	<u>NORMAL</u> OT OFF AL OFF	Error correction control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D49	CONCEAL MOD	ON <u>OFF</u>	Error concealment control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D50	ERROR MODE	<u>FAST</u> SLOW	Error sampling time Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D51	TRACKING MOD	<u>ATF</u> CTL	Tracking mode Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D52	TRACKING VAL	-128 0 127	CTL tracking amount Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D53	AEQ MODE	OFF <u>ON</u>	Adaptive equalization function Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
D54	CW REC	OFF <u>ON</u>	RF recording signal Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
D55	DEFAULT		Backup data control Operation: ① Press the [SET] key. END/SAVE/LOAD/LSI TO SYS/INIT LOAD will be displayed. ② Move the cursor with [UP] or [DOWN]. ③ Execute with the [SET] key. END : End without any action. SAVE : Save the present status. LOAD : Load a saved status. LSI TO SYS : Automatic adjustment. INIT LOAD : Set the adjustment values to the factory default values.	

____ : Factory default value

E00:EQ RP24

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
E01	ENV L2	0 255	RPL2 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E02	ENV L4	0 255	RPL4 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E03	ENV R2	0 255	RPR2 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E04	ENV R4	0 255	RPR4 mean envelope level Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E05	C L2-3	-31 0 31	RPL2 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E06	C L2-2	-31 0 31	RPL2 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E07	C L2-1	-80 -32 -4	RPL2 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E08	C L2 1	-80 -32 -4	RPL2 EQ tap coefficient (1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E11	C L4-3	-31 0 31	RPL4 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E12	C L4-2	-31 0 31	RPL4 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
E13	C L4-1	-80 -32 -4	RPL4 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E14	C L4 1	-80 -32 -4	RPL4 EQ tap coefficient (1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E15	C L4 2	-31 0 31	RPL4 EQ tap coefficient (2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E16	C L4 3	-31 0 31	RPL4 EQ tap coefficient (3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E17	C R2-3	-31 0 31	RPR2 EQ tap coefficient (-3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E18	C R2-2	-31 0 31	RPR2 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E19	C R2-1	-80 -32 -4	RPR2 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E20	C R2 1	-80 -32 -4	RPR2 EQ tap coefficient (1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E21	C R2 2	-31 0 31	RPR2 EQ tap coefficient (2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E24	C R4-2	-31 0 31	RPR4 EQ tap coefficient (-2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E25	C R4-1	-80 -32 -4	RPR4 EQ tap coefficient (-1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E26	C R4 1	-80 -32 -4	RPR4 EQ tap coefficient (1) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
E27	C R4 2	-31 0 ├ 31	RPR4 EQ tap coefficient (2) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E28	C R4 3	-31 0 ├ 31	RPR4 EQ tap coefficient (3) Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be done during PLAY/REC. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E29	VCO L24	0 <u>512</u> ├ 1023	RPL24 VCO center f-voltage Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be performed in EJECT/STANDBY OFF status. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E30	VCO R24	0 <u>512</u> ├ 1023	RPR24 VCO center f-voltage Operation: ① Switch to the DEFAULT screen. ② Execute LSI TO SYS. (Press [SET].)	<ul style="list-style-type: none"> To be performed in EJECT/STANDBY OFF status. SAVE/LOAD/LSI TO SYS/INIT LOAD from the E55 default.
E31	ENV THR	0 <u>21</u> ├ 82	Internal envelope detection threshold value Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E32	AGC THR	0 <u>82</u> ├ 82	External envelope detection threshold value Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E33	STB DET	OFF <u>ON</u>	IC standby function Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E34	SPD TR HLD	OFF <u>ON</u>	Hold at the time of relative speed change Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E37	AGC SPEED	0 1 <u>2</u> 3	AGC response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E38	PLLA	0 7 ├ 31	PLL phase response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E39	PLLB	0 7 ├ 31	PLL frequency response speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E40	PC LEVEL FIX	0 1 <u>2</u> 3	PLL frequency sweep strength Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.
E41	VCO LIMIT UL	<u>L-LIM</u> U-LIM	VCOD test mode Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	<ul style="list-style-type: none"> SAVE/LOAD/INIT LOAD from the E55 default.

Item		Set value	Setting contents and outline explanation of the function	Remarks
No.	Name			
E42	VCO SPD	SLOW FAST	PLL frequency compensation speed Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• E55 Default より SAVE/LOAD/INIT LOAD
E43	VCO THR	0 46 127	PLL frequency monitor offset Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the E55 default.
E44	EYE THR	0 110 255	Signal quality discrimination threshold value 1 Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the E55 default.
E45	TUD	0 92 255	Signal quality discrimination threshold value 2 Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the E55 default.
E46	FDL	0 1 2 3	Fault detection sensitivity Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• SAVE/LOAD/INIT LOAD from the E55 default.
E47	VITERBI MODE	OFF ON	Viterbi decoding control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
E48	ECC MODE	NORMAL OT OFF AL OFF	Error correction control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
E49	CONCEAL MOD	ON OFF	Error concealment control Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
E52	TRACKING VAL	-128 0 127	CTL tracking amount Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
E53	AEQ MODE	OFF ON	Adaptive equalization function Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
E54	CW REC	OFF ON	RF recording signal Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• No backup. • Return to the factory default value is made at the time of return to the main item.
E55	DEFAULT		Backup data control Operation: ① Press the [SET] key. END/SAVE/LOAD/LSI TO SYS/INIT LOAD will be displayed. ② Move the cursor with [UP] or [DOWN]. ③ Execute with the [SET] key. END : End without any action. SAVE : Save the present status. LOAD : Load a saved status. LSI TO SYS : Automatic adjustment. INIT LOAD : Set the adjustment values to the factory default values.	

_____ : Factory default value

F00:VIDEO ADJUST

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
F01	V SETUP	OFF ON	SETUP-MENU 672: V OUT SETUP display ON/OFF OFF: For Japan model (default) User menu 672: V OUT SETUP set value THRU fixed and no indication ON: For NTSC oversea's model (default) display Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• At the time of a full reset, the destination value is discriminated by DIPSW101, BIT2.
F03	ASPECT	FIT_V CROP	SETUP-MENU 620: DOWNCON MODE set value name change FIT_V: For NTSC oversea's model (default) CROP: For Japan model (default) Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• At the time of a full reset, the destination value is discriminated by DIPSW101, BIT2.
F20	INT SG (SD)	OFF CB MB PAB	For down control adjustment Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-]. Note: Self-recording is not possible.	• The default value is set when the SERVICE MENU is left. • No backup.
F21	4FSC ADJ	OFF SD FRE	For V_OUT adjustment Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• The default value is set when the SERVICE MENU is left. • No backup.

____ : Factory default value

G00:AUDIO ADJUST

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
G01	REF LEVEL1	FS-20 FS-18	Selection of the audio output reference level. 0: Full scale -20 dB 1: Full scale -18 dB	
G03	REF LV INI	0dB 4dB	Default set value for the IN/OUT reference level by destination 0: For NTSC oversea's model 1: For Japan model Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• User menu 701 to 704, 706 to 709 • Destination discrimination at the time of full reset by DIPSW101, BIT2.
G20	LINE OUT CUE	OFF ON	For CUE adjustment Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• Default value when the SERVICE MENU is left.
G21	IN IMP INI	HIGH 600	User menu 781: IN IMP SEL destination default value setting 0: For NTSC oversea's model 1: For Japan model Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	• Destination discrimination at the time of full reset by DIPSW101, BIT2.
G22	AUD OUT SEL	TYPE1 TYPE2	Monitor system at the time of CH1/2 or CH3/4 selection by NO: 780 AUD OUT SEL Selection of the output status. 0: TYPE1 user menu 770: MONITOR MIX display 1: TYPE2 user menu 770: No display with MONITOR MIX set value STEREO Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	

____ : Factory default value

G00:AUDIO ADJUST

Item		Set value	Setting contents and outline explanation of the function	Remarks
N0.	Name			
H04	STILL LIMIT	$\frac{2\text{min}}{8\text{min}}$	User menu 400: STILL TIMER upper limit value change Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	
H05	SYSTEM TYPE	TYPE1 TYPE2	Setting of the operation mode with connection of 9P. 0: Normal mode (for P) 1: N/A	• Destination discrimination at the time of full reset by DIPSW101, BIT2.
H06		TYPE1 TYPE2	Front counter display at the time of switching to the user menu 0: Normal mode (lit) 1: N/A	
H20	R INH SW	R_INH CH_SEL	Selection whether the REC INHIBIT switch is to be used for AUDIO OUT switching or not. 0: Use as REC INHIBIT switch. User menu 113: No display with REC INH set value OFF User menu 772: No display with LINE MIX set value OFF 1: Use as AUDIO output CH selection switch. User menu 113: REC INH display User menu 772: LINE MIX display Operation: ① Move the cursor to this item. ② Set the adjustment value with [+] or [-].	
H21	UNDERCUT ADJ	000 20E FFF	Battery undercut voltage adjustment Operation: ① Move the cursor to this item. ② Hold the [MODE] key pressed. ③ Release the [MODE] key when the value has changed.	
	INPUT V	0.0V 99.9V		

____ : Factory default value

SECTION 3

DISASSEMBLY PROCEDURES

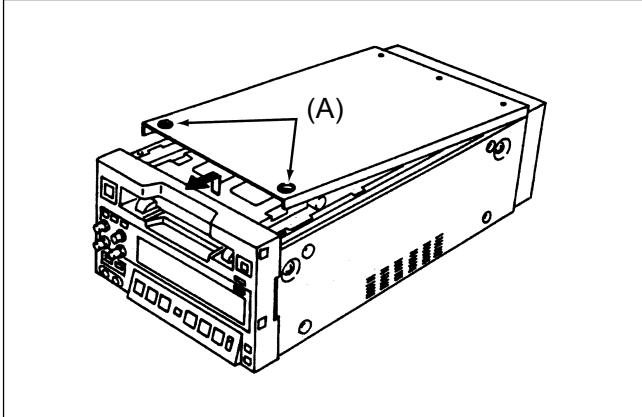
CONTENTS

1.	Removal of Top Panel	DIS-1
2.	Removal of Bottom Panel	DIS-1
3.	Removal of Front Panel.....	DIS-1
4.	Removal of Front-loading Unit.....	DIS-1
5.	Removal of Rear Jack Panel	DIS-1
6.	Removal of Power Supply Unit.....	DIS-2
7.	Removal of Mechanism Unit	DIS-3

Disassembly Procedures

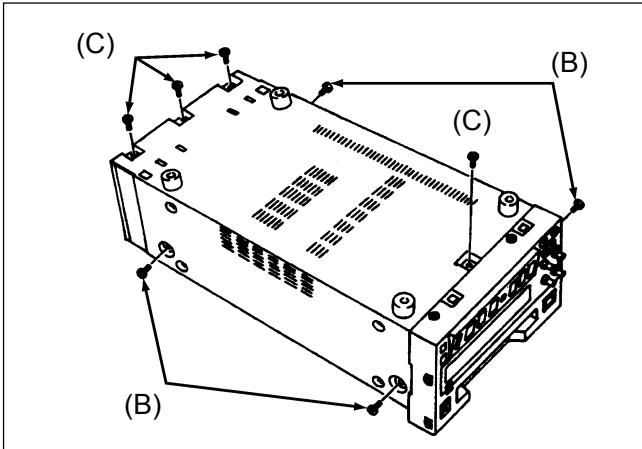
3-1. Removal of Top Panel

1. Loosen the two screws (A).
2. Lift up the top plate slightly and remove it to the front.

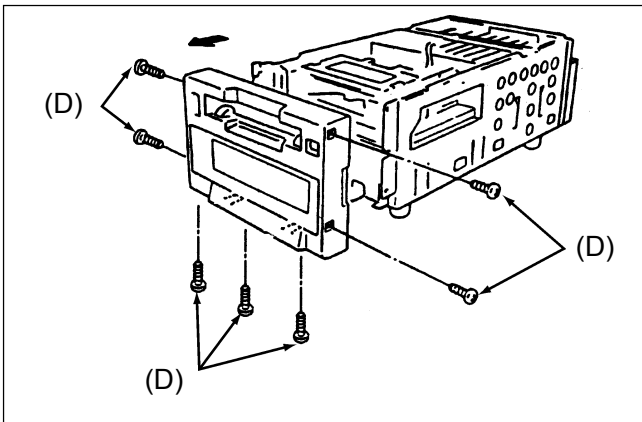


3-2. Removal of Bottom Panel

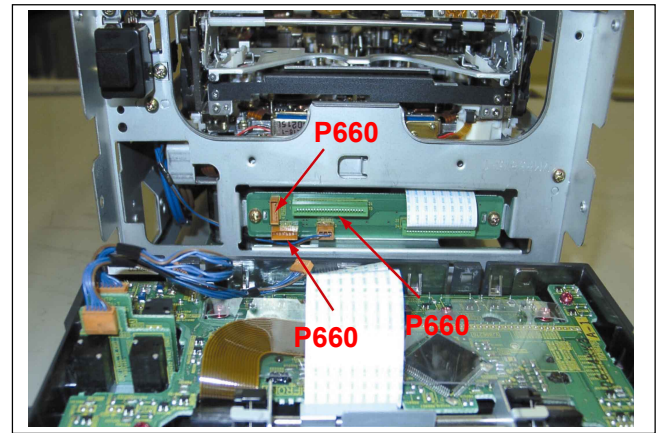
1. Remove the four screws (B).
2. Remove the four screws (C) and remove the bottom Panel.



3-3. Removal of Front Panel

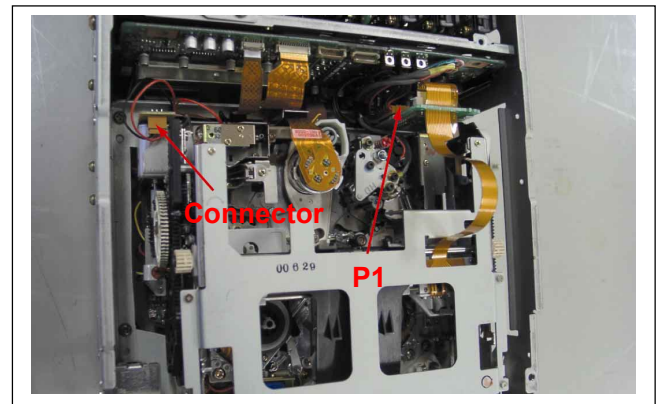


1. Remove the seven screws (D) and disengage the two claws.
2. Open the front panel to the front.
3. Disconnect the three connectors (P66002, 66003, 66004) and remove the front panel.

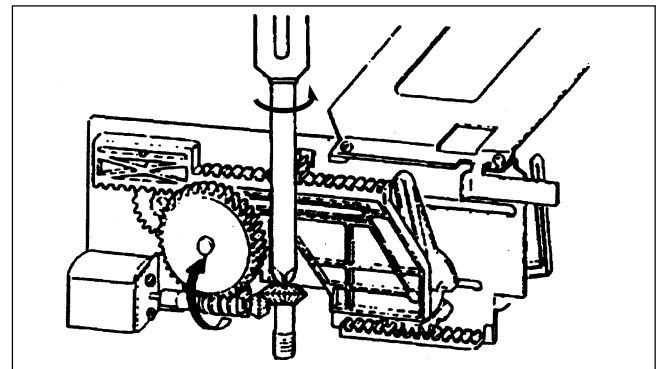


3-4. Removal of Front-loading Unit

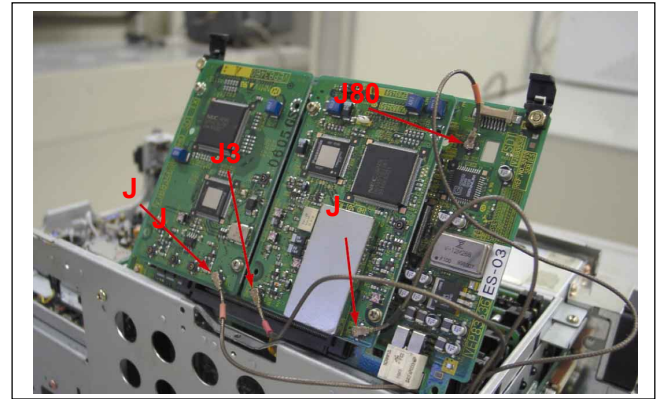
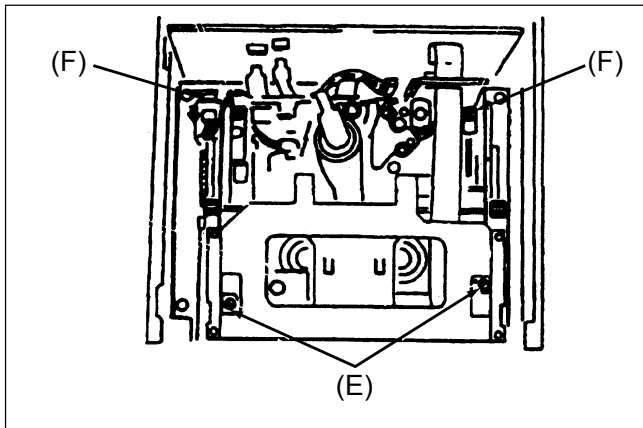
1. Disconnect the connector of the loading motor and the connector (P1).



2. Push the red plastic screw in front of the worm gear of the cassette-down motor with a screwdriver and turn it counterclockwise to move the cassette holder to the position where the two screws (E) can be seen.



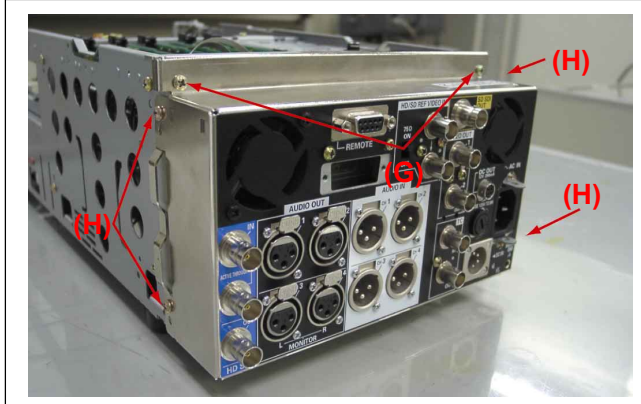
- Remove the two screws (E) and the two screws (F), and then remove the front-loading unit.



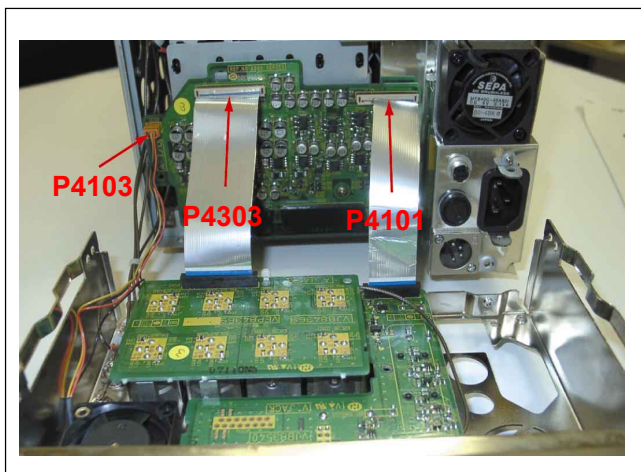
Note: Pay attention not to damage the wire material.

3-5. Removal of Rear Jacks

- Remove the two screws (G).
- Remove the four screws (H) and open the rear jack plate.



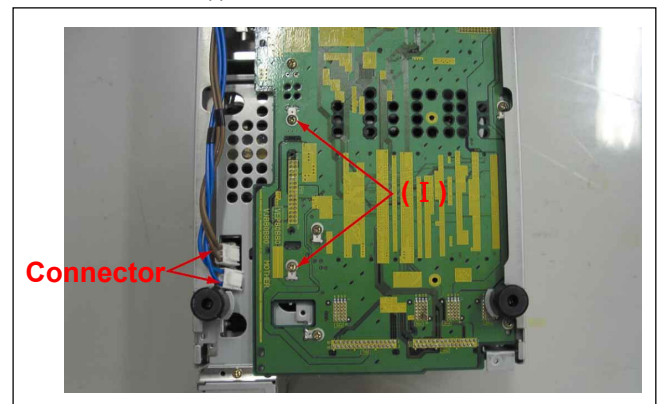
- Disconnect the three connectors (P4101, 4130, 4303).



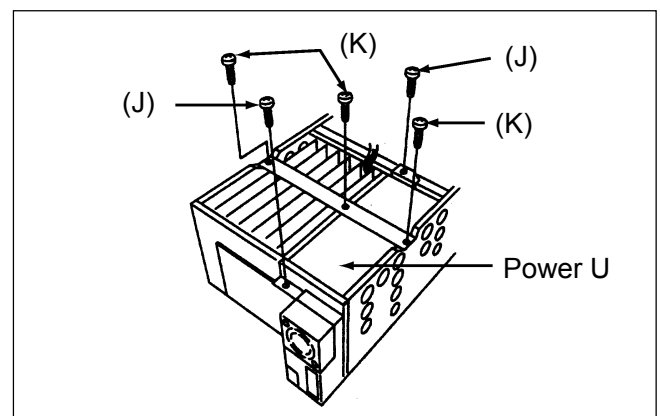
- Disconnect the four connectors (J1 gray, J2 brown, J3 red, and J801 orange) and remove the rear jack panel.

3-6. Removal of Power Supply Unit

- Disconnect the two connectors and remove the two screws (I).

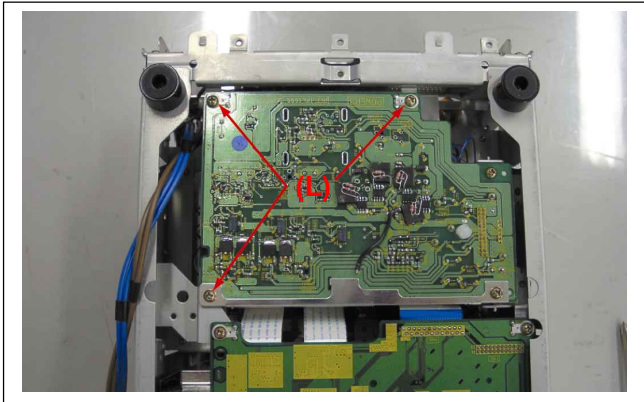


- Remove the two screws (J).
- Remove the three screws (K) and lift up the power supply unit to remove it.

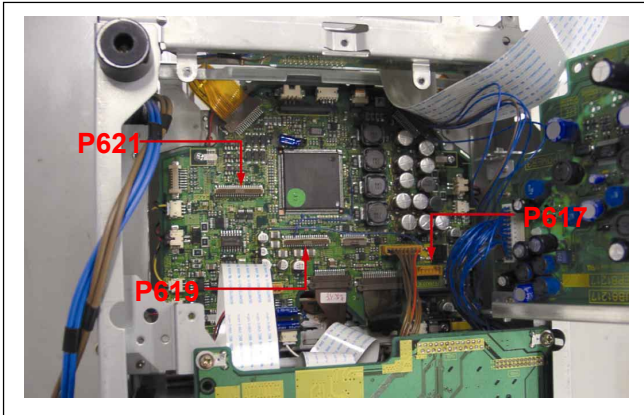


3-7. Removal of Mechanism Unit

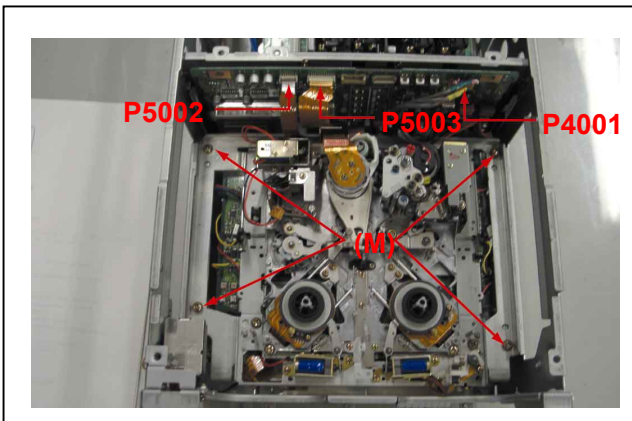
1. Remove the three screws (L) and open the power circuit board.



2. Disconnect the three connectors (P617, 619, 621).



3. Disconnect the three connectors (P5002, 5003, 4001).



Note: Perform assembly by reversing the procedure.

SECTION 4

MECHANICAL ADJUSTMENT

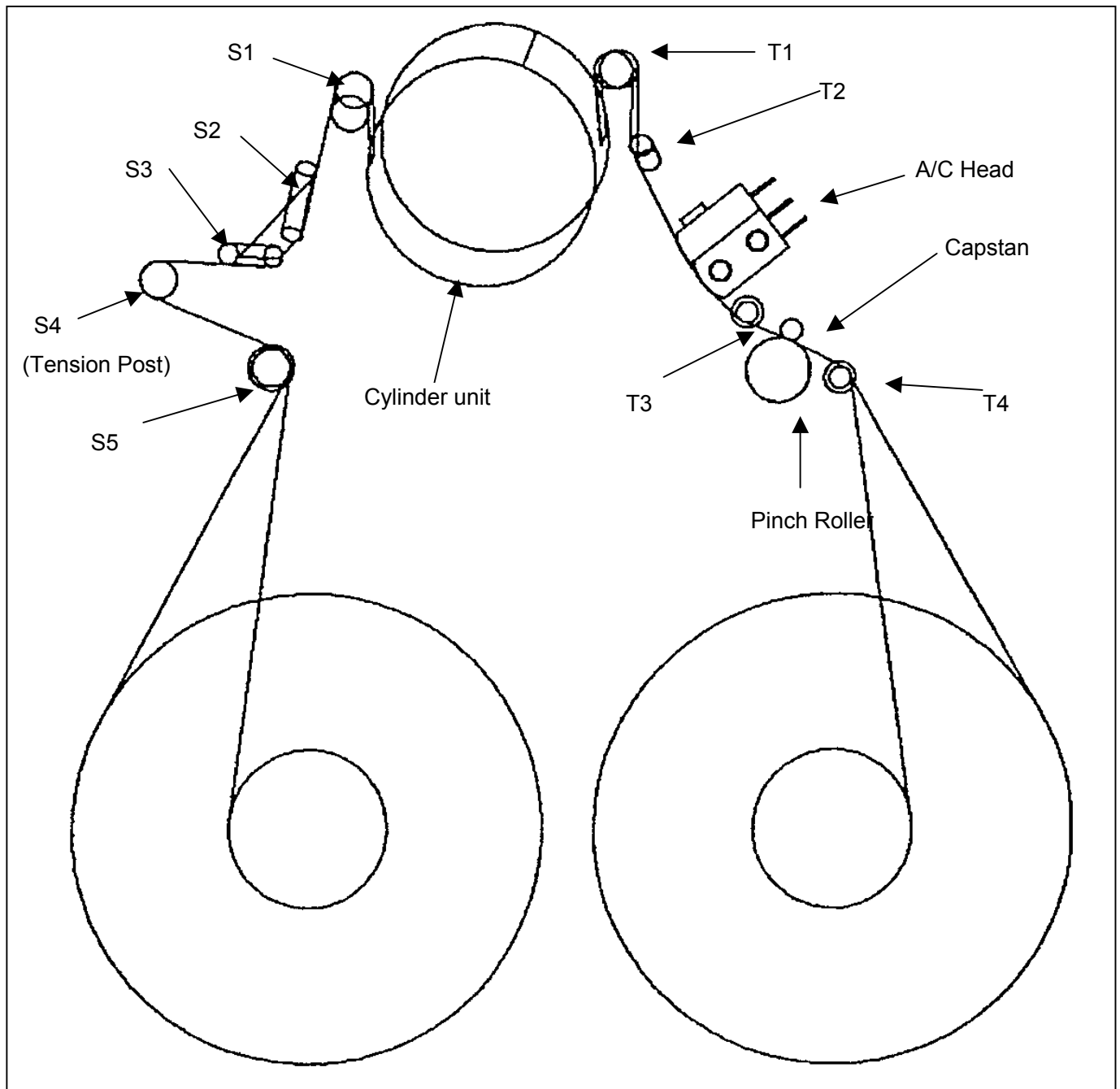
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1.Mechanism Adjustment

1-1. Parts name of Tape Transportarion



1-2. Pinch Solenoid Position Adjustment

SPEC.	T = 0.3 mm
TEST	Gap T
ADJ.	Screw (A) and Hole (B)
MODE	EJECT (Power OFF)
TOOL	Eccentric Driver (VFK0357)

1. Confirm the power is turned off.
2. Push the pinch roller by hand to be close to capstan.
3. Push the pinch solenoid by hand so that the pinch roller contacts capstan.
4. Loosen the two screws (A) and adjust the hole (B) by VFK0357 so that gap (T) is within the specification.
5. The position to confirm Gap, is at spring scratch to Plate (C) side.

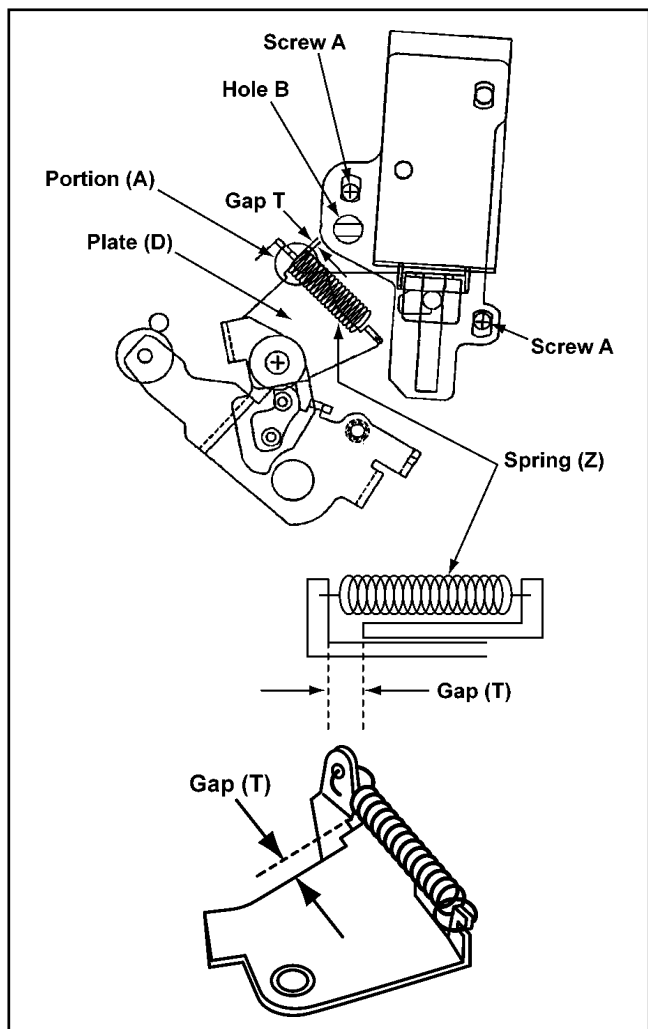


Figure 1-2

1-3. Main Brake Torque Confirmation

TEST	S Reel, T Reel
MODE	EJECT (Power OFF)
TOOL	Torque Gauge (VFK71A, VFK1191A) Torque Gauge Adapter (VFK1152)
SPEC.	Direction A
	More than 0.78cN-m (more than 80g-cm)
	Direction B
	More than 0.15cN-m (more than 15g-cm)

1. Install the adapter (VFK1152) to the torque gauge (VFK71A).
2. Put the torque gauge on S Reel and turn the torque gauge to direction A until S Reel slips against brake.
3. Confirm the torque is within the specification.
4. Put the torque gauge on T Reel and turn the torque gauge to direction A until T Reel slips against brake.
5. Confirm the torque is within the specification.
6. Install the adapter (VFK1152) to the torque gauge (VFK1191A).
7. Put the torque gauge on S Reel and turn the torque gauge to direction B until S Reel slips against brake.
8. Confirm the torque is within the specification.
9. Put the torque gauge on T Reel and turn the torque gauge to direction B until T Reel slips against brake.
10. Confirm the torque is within the specification.

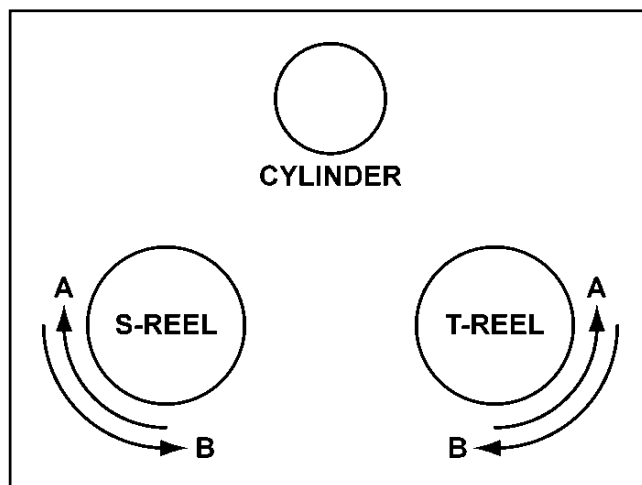


Figure 1-3

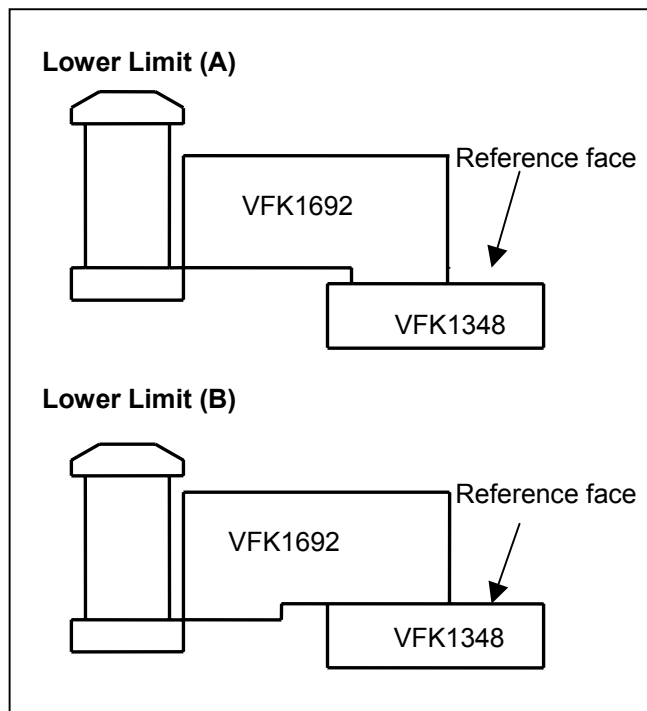
1-4. Post Height Pre-adjustment

MODE	EJECT (POWER OFF)
TOOL	VFK1348,VFK1692 (Post Height Fixture)

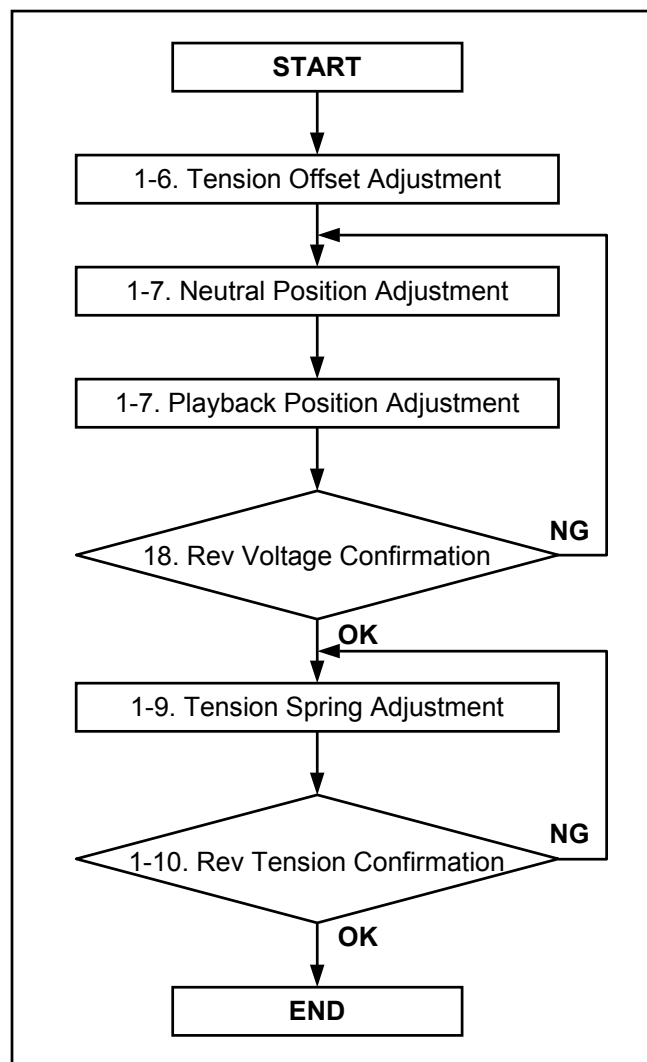
1. Turn off the power, and remove the cassette up unit.
2. Install the Mech. Neutral Plate(VFK1348) and adjust each post height to lower limit by using the post height fixture(VFK1692) as following figure.
3. Please refer to following table to see Post Driver to be used to adjust each post.

Post	Limit	Post Driver
S5 Post	Lower limit (A)	VFK1149
S4 Post	Lower limit (A)	VFK1149
T4 Post	Lower limit (B)	VFK1151(2.5 Nut Driver)
T3 Post	Lower limit (B)	VFK1151(2.5 Nut Driver)

Post Height Adjustment



1-5. Tension Adjustment Flowchart



1-6. Tension Arm Offset Adjustment

SPEC.	2.5 V \pm 0.05 V
TEST POINT	Tension: TP4 (SYSCON))
ADJ.	Tension Offset : VR402 (MECH/IF)
MODE	EJECT
TOOL	Digital Volt Meter

1. Confirm that the DC voltage at the test point is within the specification.
2. If it is out of spec, Adjust the VR so that the DC voltage is within the specification.

1-7. Tension Arm Neutral Position Adjustment

SPEC	2.5 V \pm 0.1 V
TEST POINT	Tension: TP4 (SYSCON))
ADJ.	Base position of Tension Regulator Board
MODE	STOP
TOOL	Digital Volt Meter VFK1208 (black with hole)

NOTE 1 :

Open the service menu and select "A05 : TENSION" of "A00 : SERVO ADJUST", and push "MODE" button to start Loading or push "SET" button to start Unloading.

NOTE 2 :

Do not use magnetized tweezers and Screw driver.

Do not touch the magnetize Screw driver to S-Reel FG magnet portion, while adjusting the lever (D) portion.

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 1-7-1.
4. Set the VFK1208 (black with hole) at the position as shown in figure 1-7-2.
5. Connect the Digital Volt Meter to the test point.
6. Place the unit into the no tape loading mode.
7. Loosen the screw (A) and move the lever (D) with tweezers to adjust the sensor position so that the DC voltage at Test Point is within the specification.

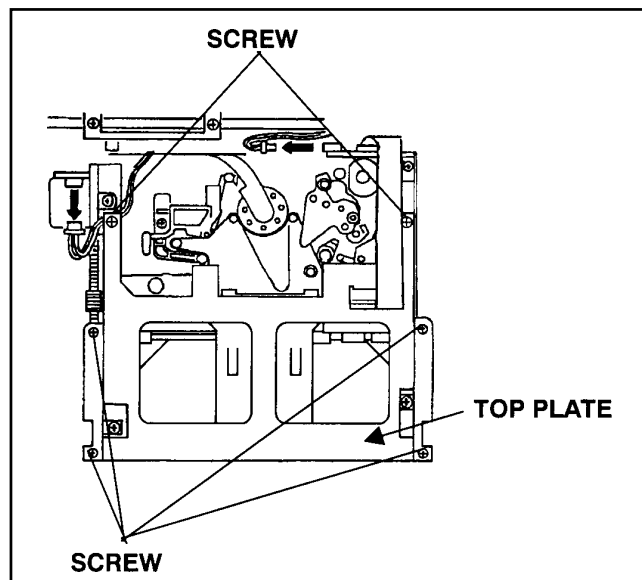


Figure 1-7-1

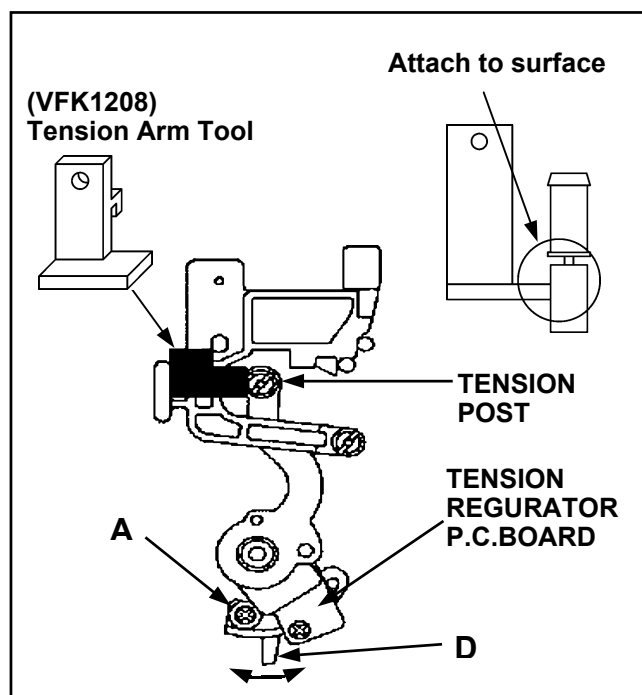


Figure 1-7-2

1-8. Tension Arm PLAY and REV Voltage Adjustment and Confirmation

SPEC	PLAY : $3.8 \text{ V} \pm 0.05 \text{ V}$ REV : $1.2 \text{ V} \pm 0.3 \text{ V}$
TEST POINT	Tension : TP4 (SYSCON)
ADJ.	Tension Gain : VR401 (MECH I/F)
MODE	STOP
TOOL	Digital Volt Meter VFK1156 (Black: for PLAY position) VFK1155 (Silver: for REV position)

NOTE 1 :

Open the service menu and select “A05 : TENSION” of “A00 : SERVO ADJUST”, and push “MODE” button to start Loading or push “SET” button to start Unloading.

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 1-8-1.
4. Set VFK1156 (black) at the position as shown in figure 1-8-2.
5. Place the unit into the no tape loading mode.
6. Confirm that the DC voltage at the test point is within the specification (PLAY).
7. If it is out of spec, adjust the VR401 so that the DC voltage is within the specification (PLAY).
8. Set VFK1156 (Silver) at the position as shown in figure 1-8-2.
9. Place the unit into the no tape loading mode.
10. Confirm that the DC voltage at the test point is within the specification.
11. If it is out of spec, perform the Tension Arm Position Adjustment again.

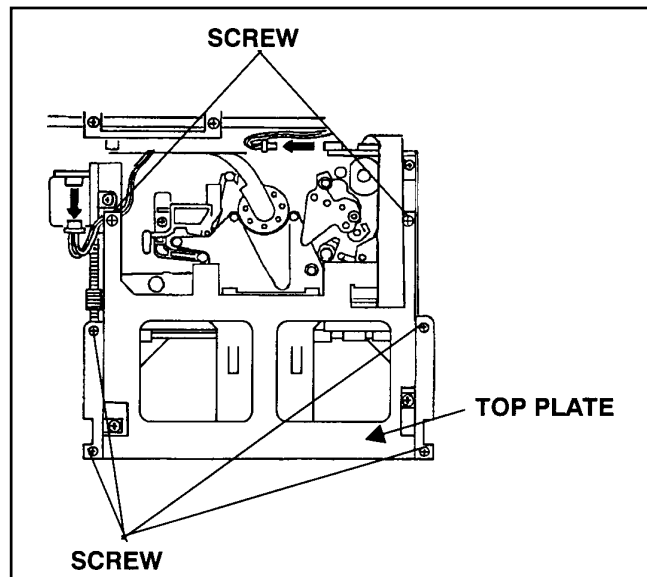


Figure 1-8-1

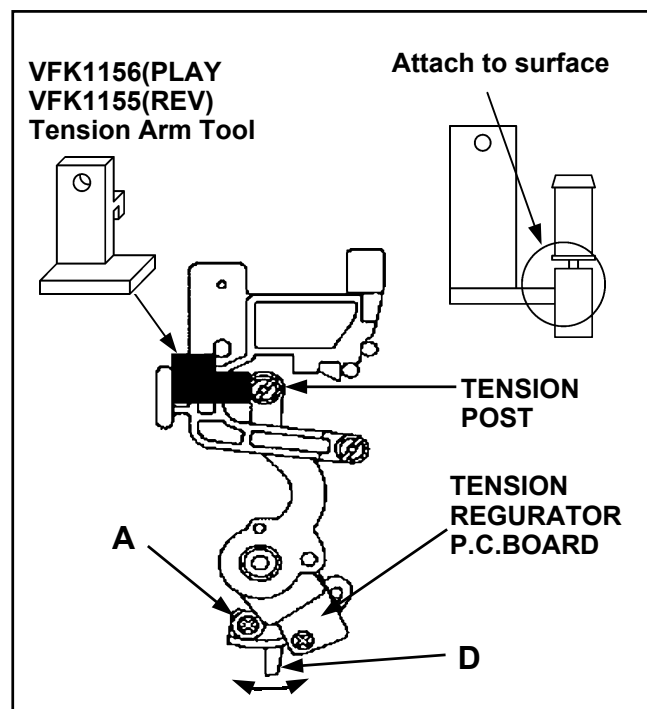


Figure 1-8-2

1-9. Tension Regulator Spring Adjustment

SPEC	110 ± 10 mN-m (11 ± 1gf)
TEST POINT	Tension : TP4 (SYACON)
ADJ.	Tension Regulator Spring hook (B)
MODE	STOP
TOOL	VFK1188A (30g Dial Tension Gauge) Digital Volt Meter

NOTE 1 :

Open the service menu and select “A05 : TENSION” of “A00 : SERVO ADJUST”, and push “MODE” button to start Loading or push “SET” button to start Unloading.

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 1-8-1.
4. Place the VTR into no tape loading mode .
5. Push the tension post to the direction R by the tension gauge as shown in Figure 1-9 until the voltage at the test point becomes 3.8V (It means PLAY position).
6. Loosen the screw (C) and adjust the position of hook (B) so that the indication (tension) of gauge is within the specification.
Then tighten the screw (C) and reconfirm tension is within the specification.

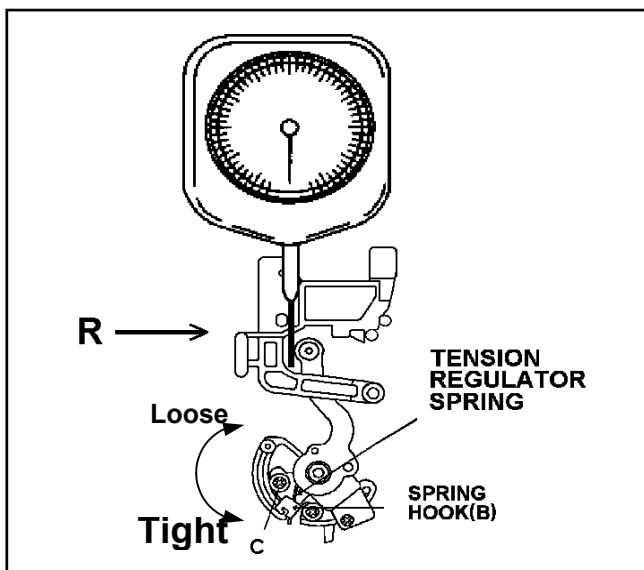


Figure 1-9

1-10. REV Tension Confirmation

SPEC	180mN ± 20mN (18gf ± 2gf)
TEST POINT	Tension : TP4 (SYSCON)
MODE	STOP
TOOL	VFK1188A (30g Dial Tension Gauge) Digital Volt Meter

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 1-8-1.
4. Place the VTR into no tape loading mode.
5. Push the tension post to the direction R by the tension gauge as shown in Figure 1-10 until the voltage at the test point becomes 1.2V (It means REV position).
6. Confirm that the indication (tension) of gauge is within the specification. If not, perform the Tension Spring Adjustment again.
7. After finish this adjustment, grew the screw (A), (B) and (C). The grew quantity at (B) is half of (A) and (C).
Grew for the screw (A) and (C) should be as big as a grain of rice. For the screw (B), it should be half of that.

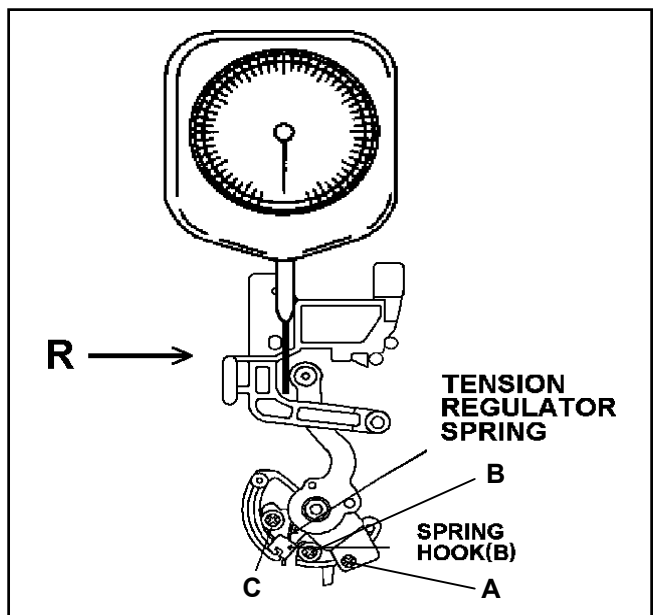


Figure 1-10

1-11. Tension Confirmation

SPEC	PLAY : 0.06N \pm 0.01N (6gf \pm 1gf) REV : 0.09N \pm 0.02N (9gf \pm 2gf)
MODE	PLAY, REV \times 1
TAPE	123min. L size blank tape
TOOL	VFK1145A (Tension Meter)

- ◆ Please calibrate Tension Meter before tension measurement by the following procedure.

<Calibration of Tension Meter>

1. Attach the 7 grams calibration plumb to DV tape. (It's tape and plumb are included in VFK1145A.)
2. Set the above tape to the Tension Meter as shown in figure 1-11-1.
3. Pull up the tape as speed of 33mm/sec and adjust the Tension Meter so that the meter shows 7 grams (0.07N).

- ◆ To calibrate Tension Meter the tape must be pulled up as the direction of tape path of VTR as shown in figure 1-11-1.

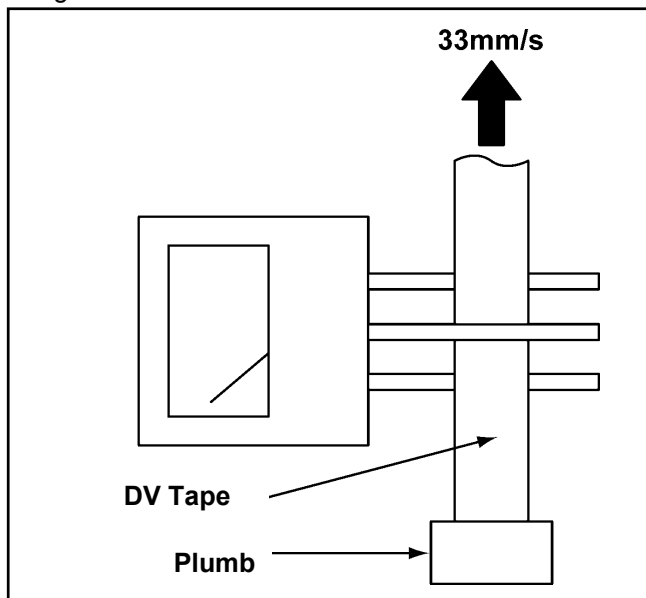


Figure 1-11-1

Play back the beginning portion of the tape.

1. Insert the tension meter between S3 post and S4 post as shown in figure 1-11-2.
2. Confirm that the tension value is within the specification.

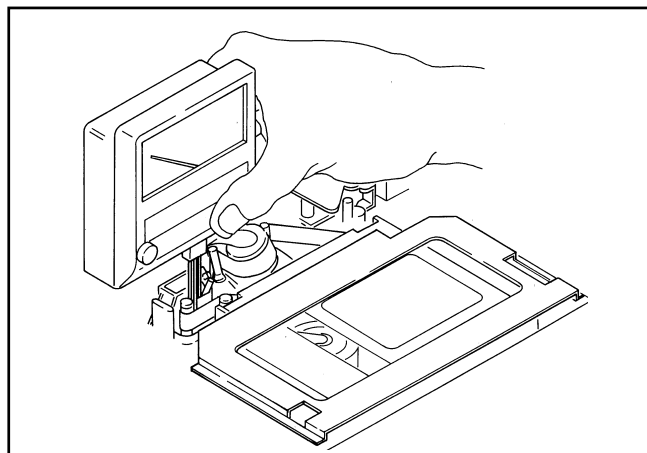


Figure 1-11-2

3. Place the unit in REV \times 1 mode. (To see how to set REV \times 1 mode.)
4. Insert the tension meter between S4 post and S5 post as shown in figure 1-11-3. (Direction is reverse)
5. Confirm that the tension value is within the specification. (Read the meter from rear side as shown in figure 1-11-3.)
6. If it is out of specification, please perform the Tension Arm Adjustment.

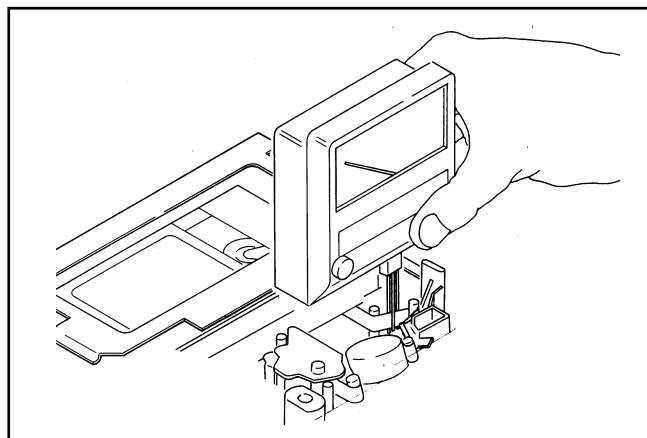


Figure 1-11-3

NOTE :

Pay attention not to give some tape damage.

1-12. Photo Sensor Voltage Adjustment

SPEC	2.2VDC \pm 0.6 VDC
TEST POINT	A04 (Service menu)
	T side : TP2 (SYSCON : F3) S side : TP1 (SYSCON : F3)
ADJ.	T side : VR504 (MECH I/F)
	S side : VR503 (MECH I/F)
MODE	STOP
TAPE	VFK1369
	(Tape Beg./End L Cassette)
M. EQ	Oscilloscope

1. Insert the VFK1369 and measure the voltage at the test point.
2. Adjust the VR or Dip SW so that the A portion of DC voltage is within the specification as shown in figure 1-12-1.

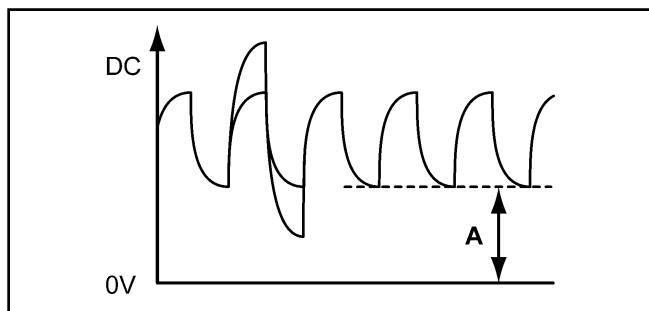
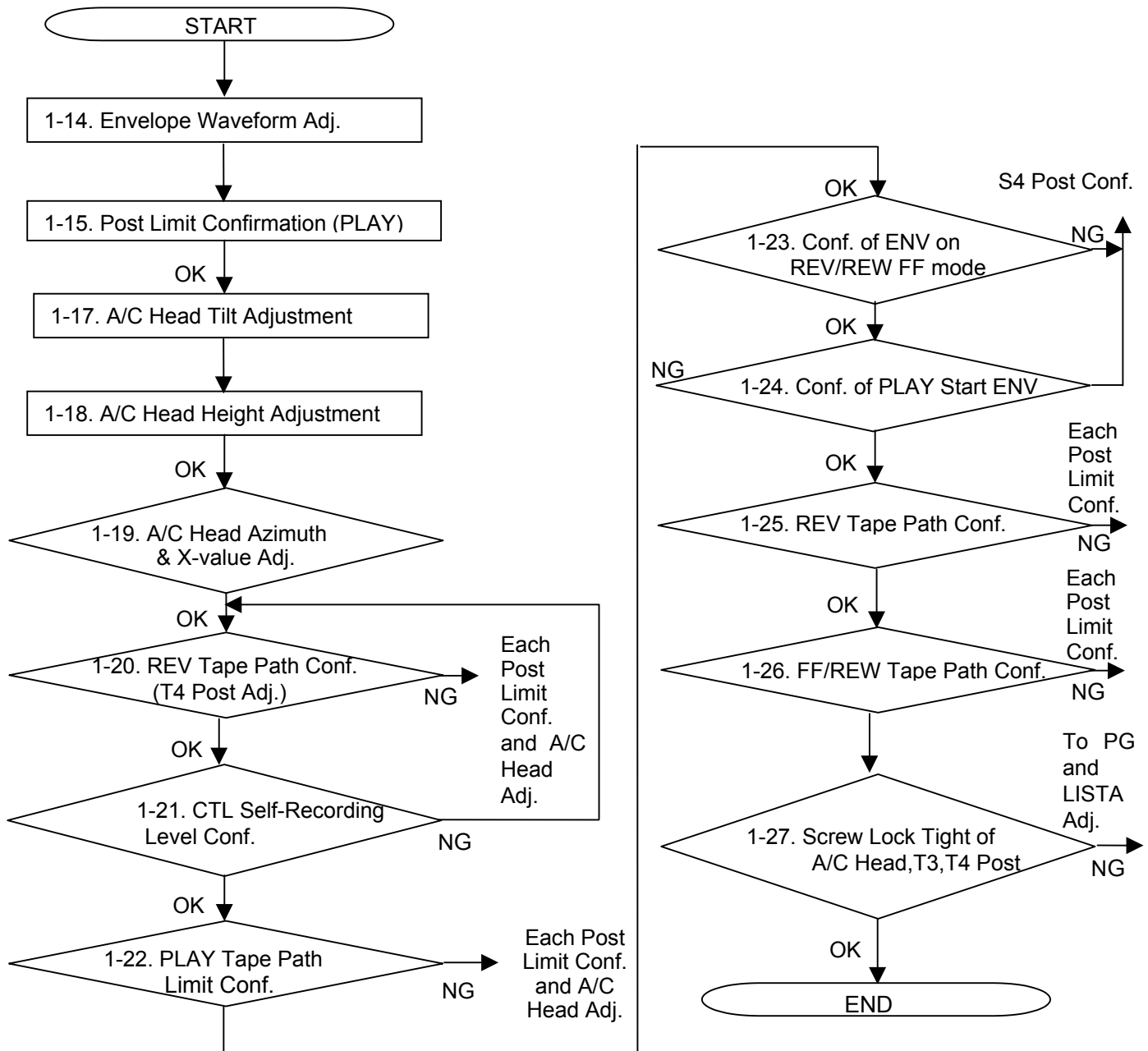


Figure 1-12-1

1-13. Tape Path Adjustment Procedure



1-14. Envelope Waveform Adjustment

SPEC	$V1/V_{max}, V2/V_{max}, V3/V_{max} \geq 0.8$
TEST POINT	TP11(RF/EQ) : RP-ENV L13 TP31(RF/EQ) : RP-ENV L24 TP21(RF/EQ) : RP-ENV L13 TP41(RF/EQ) : RP-ENV L24
ADJ.	S1, T1 Post Height
MODE	PLAY (ATF)
TAPE	VFM3580KL
M.EQ	Oscilloscope
TOOL	VFK1149 or VFK1149A (Post Driver)

1. Adjust both channels envelope by connecting the test point Lch and Rch alternately.
2. Playback the alignment tape.
3. Adjust S1 and T1 post height so that the envelope signal is within the specification.
4. To adjust the S1 or T1 posts, at first raise the post height. Then the envelope at the entrance or exit side becomes small. Then down the post height until envelope becomes flat.
5. As the order of adjustment, adjust T1 post to make it flat at exit side of envelope first and then adjust S1 post.
6. After finish this adjustment, unload the tape and load the tape again, then confirm the shape of Envelope waveform does not change.

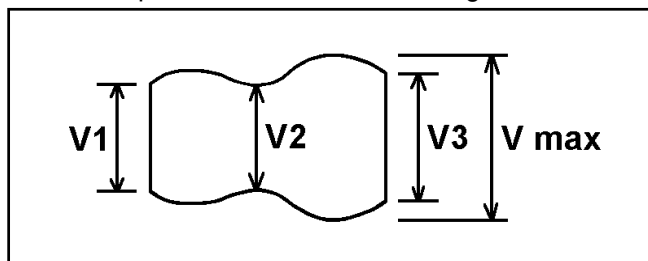


Figure 1-14

1-15. Post Limit Confirmation (PLAY)

SPEC	Post limit is shown in the following table. Curl does not appear on tape edge
MODE	PLAY
TAPE	Blank tape
TOOL	VFK1149 or VFK1149A (Post Driver) VFK1151 (Nut Driver)

1. Confirm that the tape path limit meets the specification following table. If not, adjust it.
2. Confirm that the D, E and F condition do not appear on the tape as shown in figure.

Post	Limit	Adjustment Method
S5	Lower limit or Free	Refer to Post Height
S4	Lower Limit	Pre-Adj.
S1	Upper Limit	Envelope waveform
T1	Upper Limit	Adj.
T3	Lower Limit	Post Height Pre-Adj.
T4	Upper, Free or Lower limit	

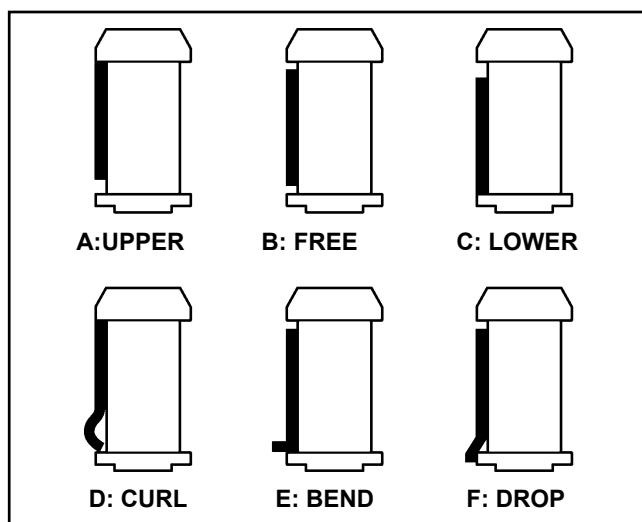


Figure 1-15

1-16. A/C Head Adjustment Method (General)

Adjustment item	SCREW	Adjustment Method	Torque
Tilt adjustment	A	①. Adjust screw A after loosen screw G. Tighten direction : Decrease Cue level Loosen direction : Increase Cue level ②. Tighten screw G after finish adjustment screw A. (refer to following item "Azimuth adjustment & fix")	None
Azimuth adjustment	F	①. Phase is adjusted by screw F after loosen screw G ②. Tighten screw G after finish adjustment screw F. (refer to below item "Azimuth adjustment & fix")	None
Azimuth adjustment & fix	G	Screw (G) must be always tightened during adjustment except Tilt and Azimuth Adjustment.	10cN-m (1.0Kg-cm)
Height adjustment	B	Tighten direction : In case of increase CTL, when A/C Head Press down. Loosen direction : In case of increase CTL, when A/C Head lift up NOTE : Please refer to figure 1-16-3 for the portion to lift up and press down A/C Head.	None
Fix height	H	After height adjustment, tighten the screw (H) to fix height of A/C Head. Normally the CUE level is decrease, when the screw (H) is tightened. In this case, loosen the screw (H) 10 to 15 degree from the position tightened to keep the maximum CUE level.	19.6cN-m (2.0Kg-cm)
X-value adjustment	C, D	①. Adjust X-value at Hole (E) by VFK0357, then tighten the screw (C) and (D) to fix A/C Head horizontal position. ②. Hit gently at the portion of A/C Head Top Plate as shown in figure 1-16-4 to confirm the phase shift.	24.6cN-m (2.5Kg-cm)

SCREW	Tool for adjustment
A	VFK1178 (0.89mm Hex Driver)
B	VFK1150 (5.5mm Nut Driver)
F	VFK1148 (1.5mm Hex Driver)
C, D, G	VFK1209A (Torque Driver), VFK1148 (1.5mm Hex Driver) VFK0912 or 1375 (1.5mm Post Axis Driver)
H	VFK1190 (1.5mm L type of Hex Wrench)

1. For Tilt and Azimuth adjustment, loosen the screw (G) first and tighten the screw (G) after finish adjustment. And if need to turn the screw (A) and (F) too much for adjustment, tighten screw (A), (F) and (G) alternately.

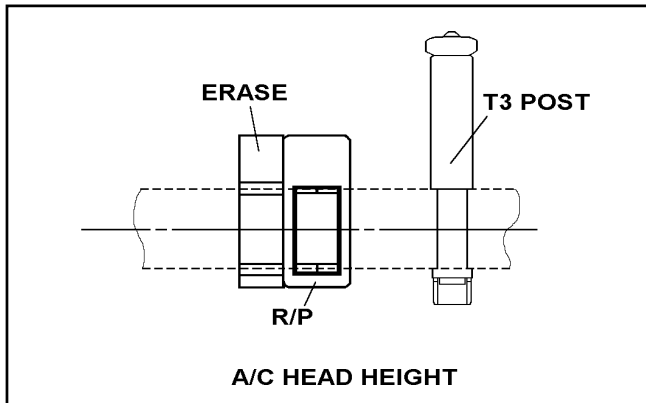


Figure 1-16-1

2. Perform the Height and X-value adjustment under the screw (G) tightened completely.
3. Be careful the tape damage at T3 Post, when adjust tilt of A/C Head. (refer to figure 3-16-1)

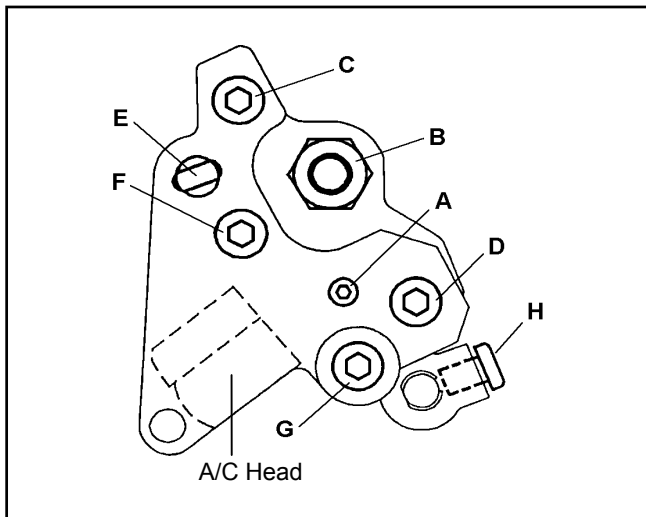


Figure 1-16-2

4. Confirm the screw (A) isn't loose, before perform A/C Head Tilt adjustment. The screw (A) should be always touch to top of A/C Head.
5. When the height of A/C Head is adjusted by the Nut (B), the screw (H) should be loosen first. And after height adjustment finished, tighten the screw (H) lightly.

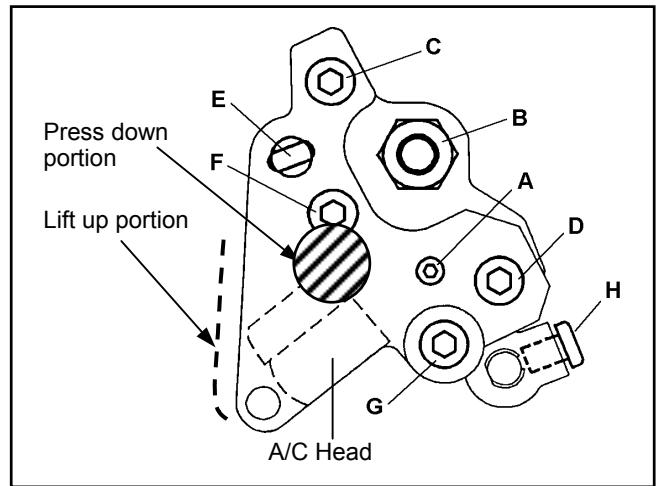


Figure 1-16-3

6. After finish X value adjustment, hit the portion (L) lightly and confirm the specification of X-value.
7. Each adjustment of A/C Head should be finished at the condition of tightening the each adjustment screw. And hit the portion (L) lightly to release the distortion of A/C Head plate.

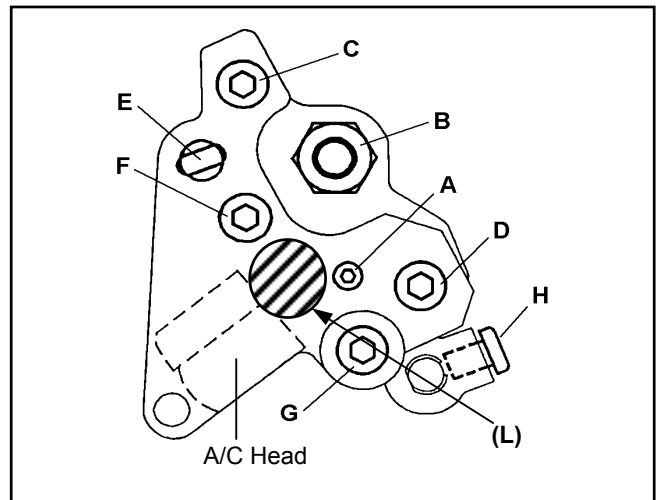


Figure 1-16-4

1-17. A/C Head Tilt Adjustment

SPEC	Curl does not appear on tape edge. Lower limit at T3 post
ADJ.	SCREW A, G (A/C Head)
MODE	PLAY
TAPE	Blank tape (For the long time play models, long time recorded tape should be used)
TOOL	VFK1148, VFK1178 (Hex Driver)

1. Play back the tape and adjust the screw (A) for adjustment of A/C Head tilt so that the tape path has lower limit without curl at T3 post.
2. For adjustment, loosen the screw (G) and make curl on tape at lower flange of T3 post by loosening screw (A). And tighten the screw (A) accordingly to find the point of curl disappeared. After finish adjustment for screw (A), tighten the screw (G) with 10cN-m (1.0Kg/cm) of torque.

NOTE :

1. In case of turning the screw (A) clockwise.
→ Tape goes up at T3 post.
In case of turning the screw (A) counter-clockwise.
→ Tape goes down at T3 post.
2. When the screw (A) adjustment is finished, screw adjustment should be finished in tightening direction. And confirm that the screw (A) isn't loose.
3. Adjustment and confirmation should be performed alternately for each A/C head adjustment (Azimuth and Height).

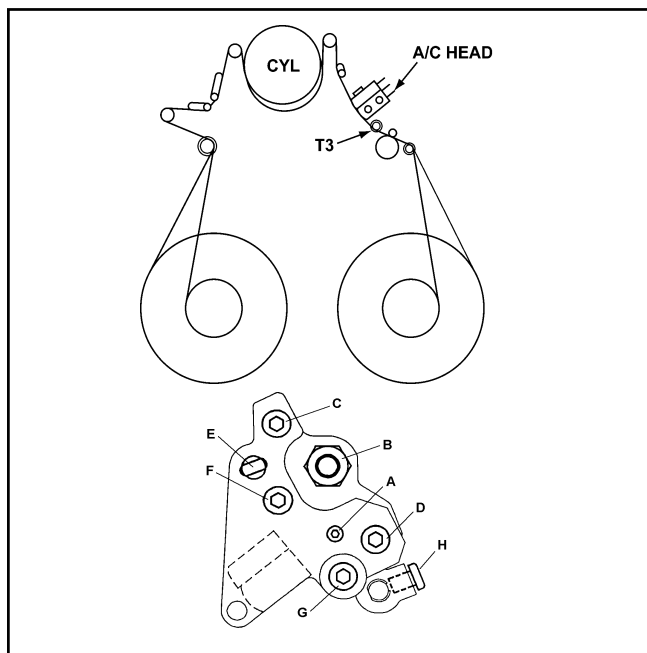


Figure 1-17

1-18. A/C Head Height Adjustment

SPEC	CTL max. (C1, C2 ≥ 1.6V)
TEST POINT	CUE AUDIO : TP101 (RF/EQ) CTL : TP3 (SYSCON)
ADJ.	SCREW B, H (A/C Head)
MODE	PLAY
TAPE	VFM3580KL (14 to 22min)
TOOL	VFK1150 (Nut Driver) VFK1190 (Hex Wrench)

1. Press and Lift up A/C Head lightly as indicated in figure1-16-3, then confirm that the CTL and CUE output level is within the specification.
2. If it is out of spec., loosen the screw H and adjust the screw B until Cue output is maximized.
3. Confirmation of the level have to be done after the screw (H) is tighten completely. (refer to 1-16.A/C Head Adjustment Method)
4. A/C head height adjustment should be done with Azimuth and X Value adjustment alternately.

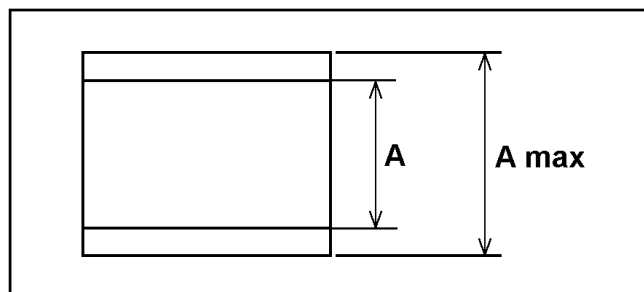


Figure 1-18-1

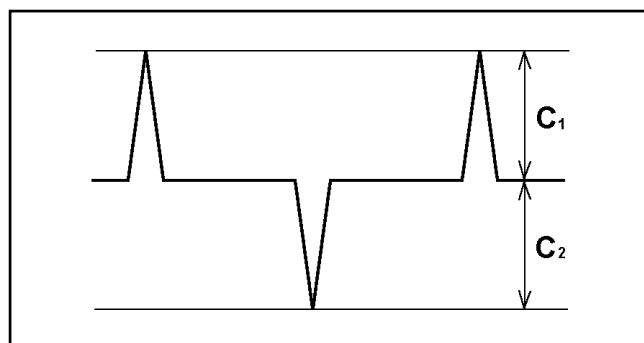


Figure 1-18-2

1-19. A/C Head Azimuth and Horizontal Position Adjustment

SPEC	As shown in figure below $-62.5\mu s \leq t_1, t_2 \leq +62.5\mu s$	TEST POINT	FLAME PULSE TP11 : L13ENV(RF/EQ) TP1 : L13 HSW(RF/EQ) TP101 : CUE OUT(RF/EQ) TP3 : CTL OUT(SYSCON)
ADJ.	A/C Head each screw (C,D,F,G) and hole (E)	M. EQ	Oscilloscope
MODE	PLAY (Frame synchronized mode)	TOOL	VFK0357 (Eccentric Driver) VFK1148 (Hex Driver) VFK1209A (Torque Driver) VFK0912 or VFK1375 (Hex Bit)
TAPE	VFM3582KL		
CTL Reference	Falling edge		

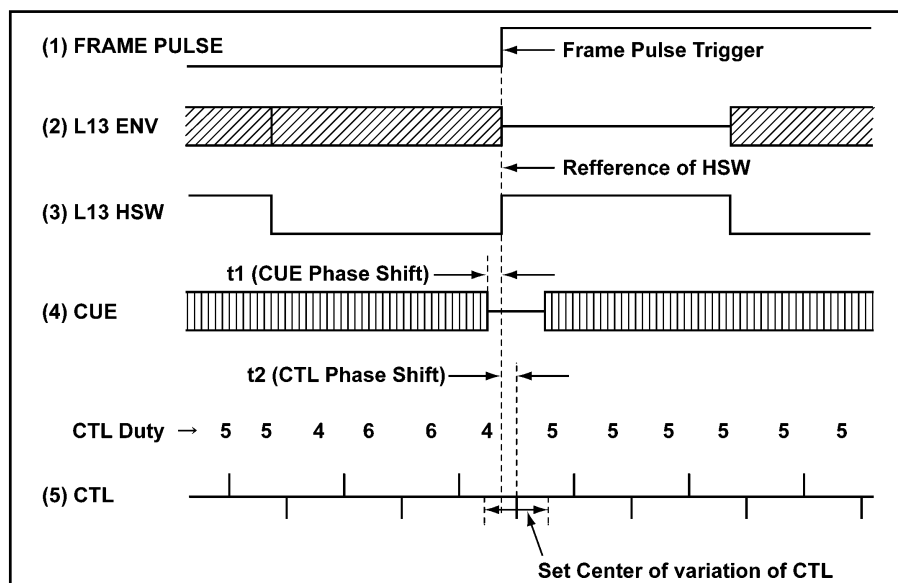


Figure 1-19-1

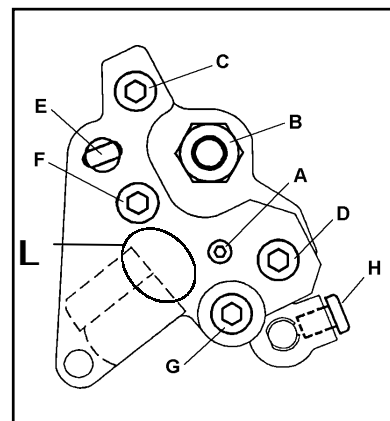


Figure 1-19-2

1. Open the service menu and set "A06 : X VALUE SET" of "A00 : SERVO ADJUST" to ON.
2. Confirm that the phase of CUE and CTL are within the specification against Frame pulse trigger. If it is out of spec., perform adjustment as following procedure.
3. Confirm that the phase of CTL match with non-recorded portion of CUE (t2) in the phase. If not, adjust the screw (F) so that the phase is within the specification. (refer to "1-16. A/C Head Adjustment Method").
4. Confirm non-recorded portion of envelope, and select the HSW to meet with it (L ch of tape with non-recorded portion meets HSW high).
5. Adjust A/C Head Horizontal position so that the HSW and CTL trigger at the frame start is match in the phase (t1). The frame start CTL is located at the edge between 6 : 4 and 5 : 5 portion. To adjust A/C Head Horizontal position, loosen the screw (C) and (D), adjust the hole (E) by VFK0357. After adjustment tighten the screw (C) and (D) with 24.6cN-m (2.5Kg) torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
6. Hit the top plate (portion L as shown in figure) of A/C Head lightly by a pointed end of Eccentric driver, then confirm the phase is not shifted finally.

1-20. REV Tape Path Confirmation and Adjustment (T4 Post Height Adjustment)

SPEC	①. $C1, C2 \geq Cp1, Cp2 \times 0.75$ NOTE: C1, C2 : CTL output REV (-1) mode Cp1, Cp2 : CTL output PLAY (+1) mode. ②. Lower limit at T3 post on REV mode. ③. Curl does not appear on tape at T3 and T4 post.
TEST POINT	CTL : TP3 (SYSCON)
ADJ.	T4 post height
MODE	PLAY (+1) / REV (-1)
TAPE	VFM3580KL
TOOL	VFK1150 (Nut Driver)

- Place unit into REV X1 mode and confirm the CTL output level becomes more than 75% at play mode. Confirm the tape path limit becomes lower limit at T3 post and the tape does not have curl at T3 and T4 post.
- If it is out of specification, adjust T4 post by following procedure.
- Turn the Nut of T4 post clockwise or counterclockwise by the tape limit condition at T3 post. The maximum rotation angle should be 45 degree.
- However if still it is out of specification, adjust T4 post height by following the item "1-4. Post Height Pre-adjustment procedure".

Note :

REV (-1) Mode Setting Procedure

- Open the SERVICE MENU.
- Press "PLAY" and "REW" button simultaneously.

[T4 Nut Adjustment Direction]

Direction	CTL Level	Condition of lower limit on T3 Post
Tighten	Increase	Tape touch to strong
Loosen	Decrease	Tape touch to weak

[Post limit]

Post	A	B	C	D	E	F
T3	NG	NG	OK	NG	NG	NG
T4	OK	OK	OK	NG	NG	NG

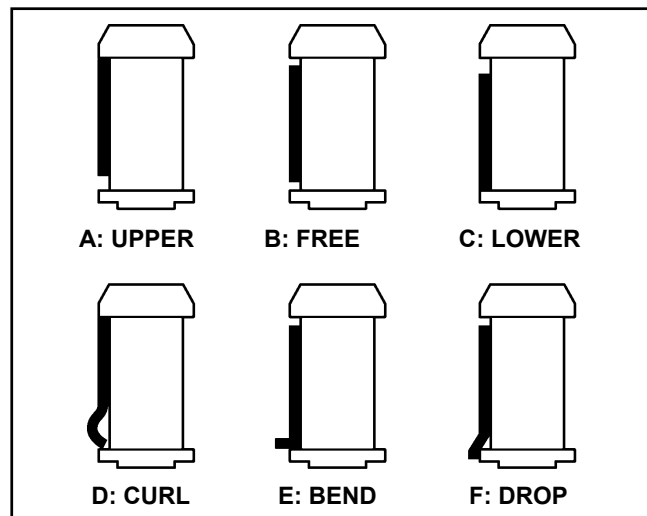


Figure 1-20-1

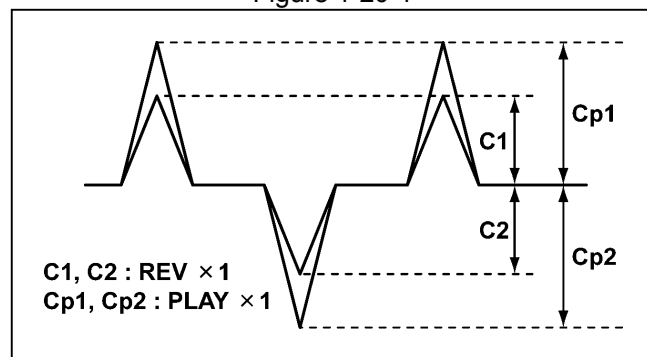


Figure 1-20-2

1-21. CTL Self Recording Level Confirmation

TEST POINT	CTL : TP3 (SYSCON)
ADJ.	T4 post height
MODE	PLAY, REV×1
TAPE	Blank Tape L cassette 126 min
M.EQ	Oscilloscope

(Specification for confirmation)

VTR MODE	CTL Output Level : C1, C2
PLAY [“A10 : CTL ADJ”]	$C1, C2 \geq 1.8 \text{ V}$
REV [× (-1), SHTL]	$C1, C2 \geq 1.4 \text{ V}$
REV(2) [× (-0.2), SHTL]	$C1, C2 \geq 1.2 \text{ V}$

1. Please confirm that the each screws are fixed on A/C Head.
2. Place Unit into REC mode and playback the recorded portion.
3. Confirm that the CTL level is within the specification at PLAY and REV mode.
4. If CTL level is out of specification at PLAY mode, confirm the height of A/C Head (refer to item “1-18. A/C Head Height Adjustment”)
5. If CTL level is out of specification at REV mode, confirm the height of T4 Post (refer to item “1-20. REV Tape Path Confirmation and Adjustment”).

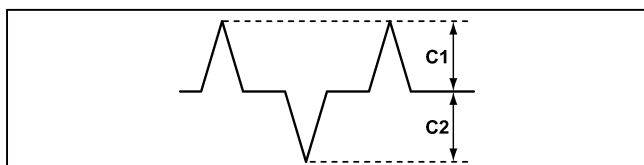


Figure 1-21

1-22. Play Tape Path Limit Confirmation

SPEC	Each post limit shown in figure below.
MODE	PLAY
TAPE	VFM3580KL or Blank Tape

1. Place unit into PLAY mode and confirm the each post limits is within the specification.

Post Name	Tape limit (refer to figure)					
	A	B	C	D	E	F
S5 post	NG	OK	OK	NG	NG	NG
S4 (Tension) post	NG	NG	OK	NG	NG	NG
S1 post	OK	NG	NG	NG	NG	NG
T1 post	OK	NG	NG	NG	NG	NG
T3 post	NG	NG	OK	NG	NG	NG
T4 post	OK	OK	OK	NG	NG	NG

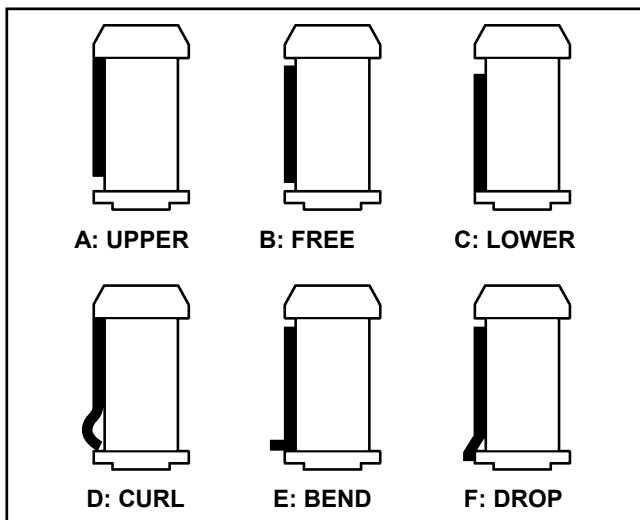


Figure 1-22

2. If out of specification, adjust the post height by following the each adjustment procedure (Refer to above table).

Post Name	Adjustment Point	Adjustment Item
S5 post	S4, S5 post	Post Height Pre-Adjustment
S4 (Tension) post		
S1 post	S1, T1 post	ENV Waveform Adjustment
T1 post		
T3 post	A/C Head tilt screw	A/C Head Tilt Adjustment
T4 post	T4 post	Post Height Pre-Adjustment

Table 1-22

1-23. Confirmation of Envelope on REV, REW and FF mode

SPEC	See figure 1-23 $V/V_{max} \geq 0.9$
TEST POINT	TP11 (RF/EQ) : R/P-ENV L13 TP31 (RF/EQ) : R/P-ENV L24 TP21 (RF/EQ) : R/P-ENV R13 TP41 (RF/EQ) : R/P-ENV R24
MODE	REV, REW, FF
TAPE	VFM3580KL
M.EQ	Oscilloscope

- Confirm that the Envelope waveform becomes in the specification at REV, REW and FF mode as following.
 - Waveform must be Diamond Style. (Figure 1-23)
 - All the peak level must be more than 90% of maximum level.
 $V/V_{max} \geq 0.9$
- If out of spec, adjust S4 post height. (refer to item "1-4.Post Height Pre-Adjustment")

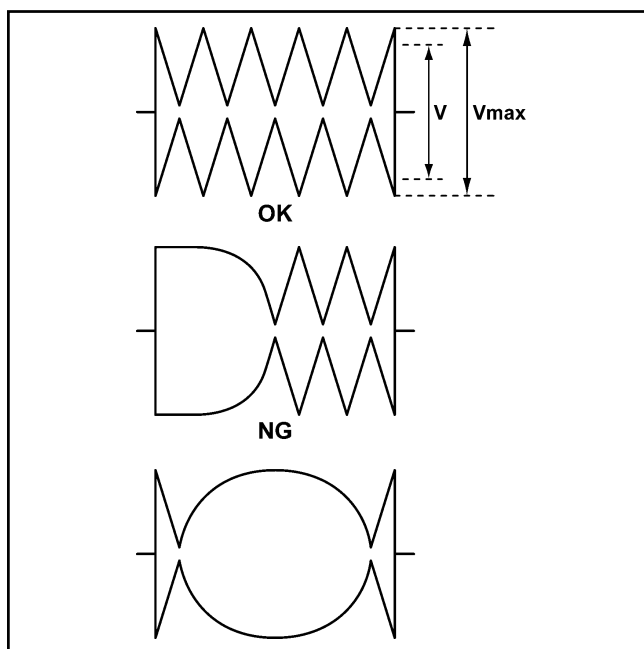


Figure 1-23

1-24. Confirmation of Play Start Envelope

SPEC	Envelope Waveform signal should be rising up immediately at PLAY mode.
TEST POINT	TP11 (RF/EQ) : R/P-ENV L13 TP31 (RF/EQ) : R/P-ENV L24 TP21 (RF/EQ) : R/P-ENV R13 TP41 (RF/EQ) : R/P-ENV R24
MODE	REW/REV → PLAY, Loading completion → PLAY, FF → PLAY
TAPE	① L Cassette (123min, Recorded tape) Tape beginning portion
M.EQ	Oscilloscope

- Confirm that the Envelope waveform becomes in the specification at REV, REW and FF mode as following.
 - Waveform must be Diamond Style. (Figure 3-24)
 - All the peak level must be more than 90% of maximum level.
 $V/V_{max} \geq 0.9$
- If out of spec, adjust S4 post height. (refer to item "1-4.Post Height Pre-Adjustment")

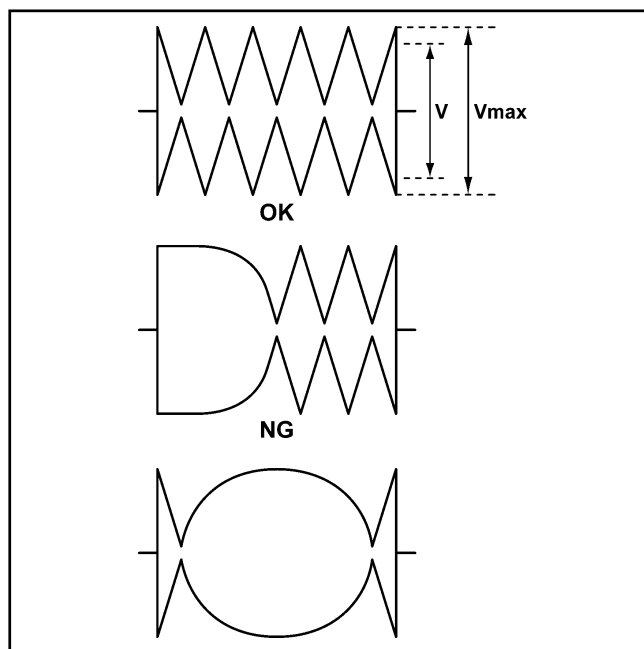


Figure 1-24

1-25. REV mode Tape Path Limit Confirmation

SPEC	Each post limit shown in below figure
MODE	REV
TAPE	VFM3580KL

Post Name	Tape Limit (Refer to figure 1-25)					
	A	B	C	D	E	F
S5 Post	OK	OK	OK	NG	NG	NG
S4 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S1 Post	OK	NG	NG	NG	NG	NG
T1 Post	OK	OK	OK	NG	NG	NG
T3 Post	NG	NG	OK	NG	NG	NG
T4 Post	OK	OK	OK	NG	NG	NG

1. Place unit into REV mode and confirm the each post limits is within the specification.
2. If out of specification, adjust the post height by following the each adjustment procedure (Refer to Table 1-22 on item 1-22)

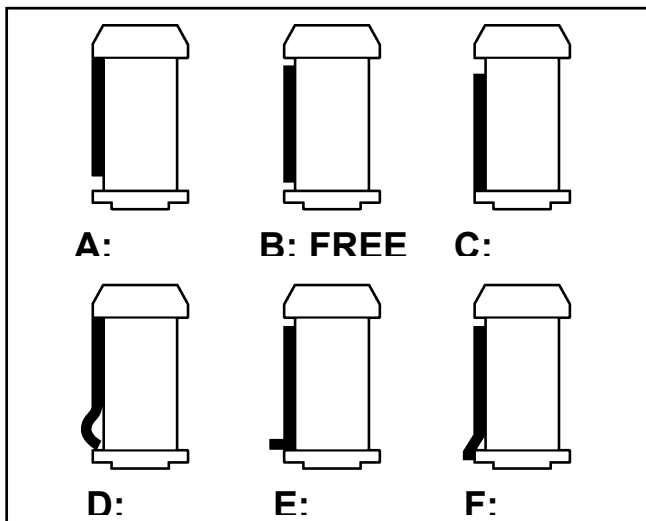


Figure 1-25

1-26. FF, REW mode Tape Path Limit Confirmation

SPEC	Each post limit shown in below figure
MODE	FF, REW
TAPE	VFM3580KL

Post Name	Tape Limit (Refer to figure 1-25)					
	A	B	C	D	E	F
S5 Post	OK	OK	OK	NG	NG	NG
S4 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S1 Post	OK	NG	NG	NG	NG	NG
T1 Post	OK	OK	OK	NG	NG	NG
T3 Post	OK	OK	OK	NG	NG	NG
T4 Post	OK	OK	OK	NG	NG	NG

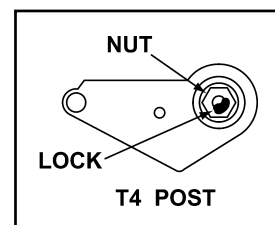
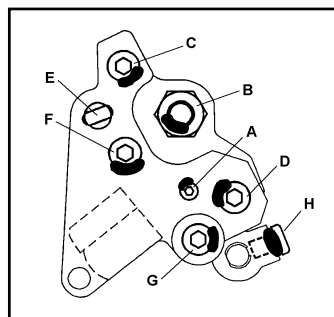
1. Place unit into FF and REW mode and confirm the each post limits is within the specification.
2. If out of specification, adjust the post height by following the each adjustment procedure (Refer to Table 1-22 on item 1-22)

1-27. Screw Lock Tight of A/C Head and T3, T4 Post

<Screw Lock Tight of A/C Head>

	SCREW A	OTHER SCREWS
Lock Tight Grew Quantity	1/3 of the screw	1/3 of the screw

1. Fix the screw by the Lock Tight Grew after A/C Head Adjustment as shown in figure below.
2. Melt the grew before adjust each screws.

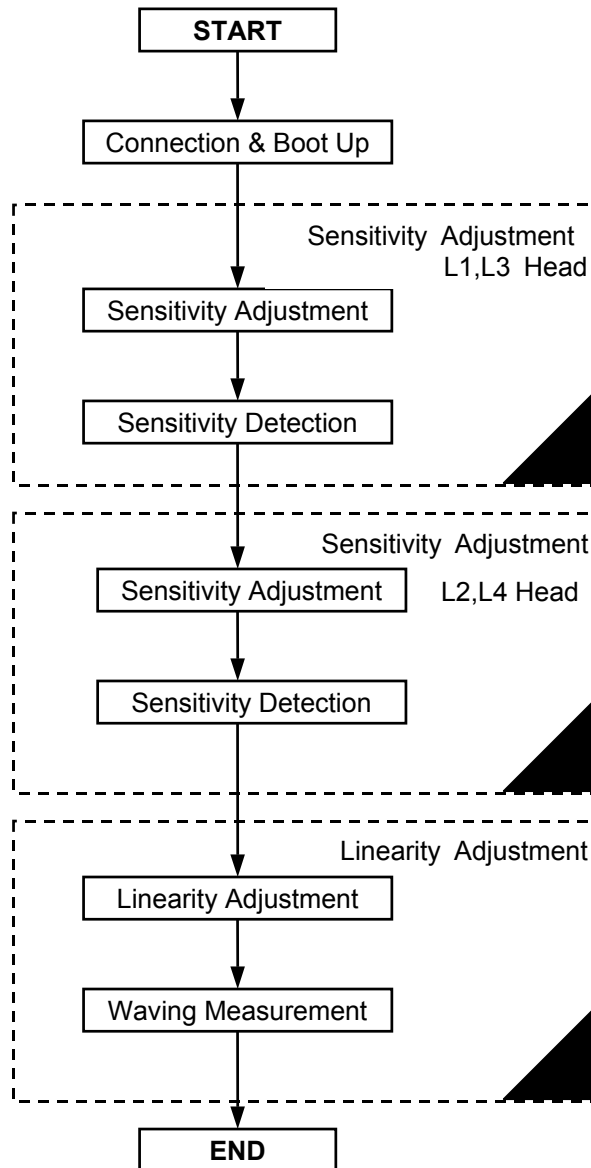


<Screw Lock Tight of T3 and T4 Post>

	SCREW A	OTHER SCREWS
Lock Tight Grew Quantity	1/4 of the screw	1/4 of the screw

1. Fix the Nut by the Lock Tight Grew after T4 Post Height Adjustment.
2. Melt the grew before perform adjustment.

1-28. LISTA Connection & Boot Up



Note :

1. Refer to item "1-31. LISTA Sensitivity Adjustment and Sensitivity Detection", regarding the procedures of sensitivity adjustment and sensitivity detection.
2. Refer to item "1-32. LISTA Linearity Adjustment and Waving Measurement", regarding the procedures of linearity adjustment.

1-29. LISTA Connection and Boot Up

TP	ATF	ATF ERR L13 : TP15 (RF/EQ)
		ATF ERR L24 : TP35 (RF/EQ)
	TRG	R/P-HSW L13 : TP1 (RF/EQ)
		R/P-HSW L24 : TP3 (RF/EQ)
	GND : TG5	
M.EQ	Personal Computer (A/D Board should be installed)	
TAPE	VFM3581KL (LISTA)	
TOOL	VFK1481B (LISTA Software), VFK1186 (LISTA Cable)	

1. Connect the LISTA cable to A/D Board in the PC.
2. Connect the clips of the LISTA cable to test point on the P.C.Board.

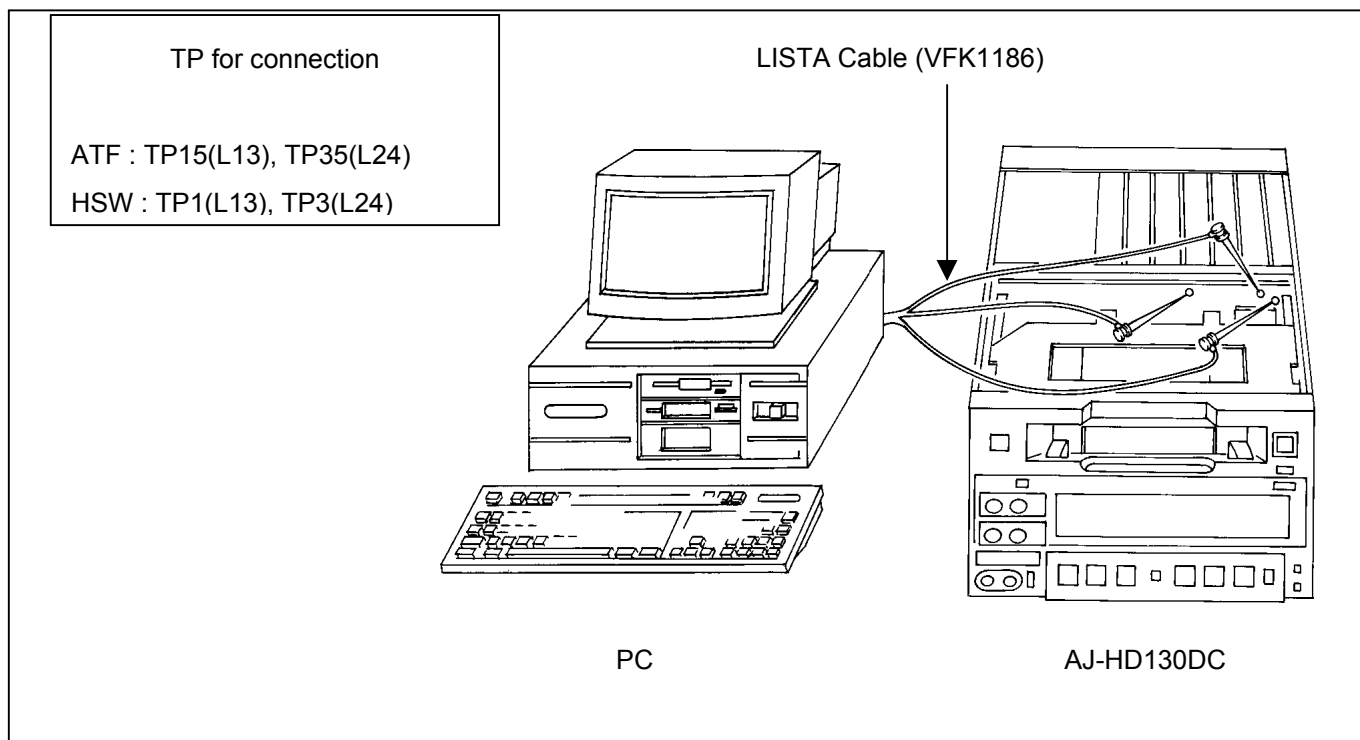


Figure 1-29

1. Boot up the LISTA software installed on the hard disk.

< How to Installation and Boot Up >

Copy all files on the floppy disk (VFK1481A : LISTA software) to created directly on PC (i.e.; C:¥LISTA).

Type "**LISTA**" and press **ENTER** key, then the LISTA software VFK1481B boot up.

1. After the LISTA software boot u, << FORMAT SELECT >> display appears, Select the format "DVCPROHD".
2. After select the format, <<<VTR SELECT >>> display appears, and select the item "AJ – HDC20"

Linearity monitor system of track
using AIF error signal for DUCPRO

-- LISTA PRO --
[DUCPRO]

<<< FORMAT SELECT >>>

<1> DUCPRO
 <2> DUCPRO 4K
 <3> DUCPRO 50
<4> DUCPRO HD
 <5> Quit

Move:Cursor key Select:[ENTER] key

<<In case Alignment Tape data is registered already >>

<< Alignment Tape Select >> Last Select [4]

No.	Serial No.	PAL/NTSC	Check Sum	Type	Entry Date
[1]	0000	NTSC	0.0	18 un	10-05-1995
[2]	0000	PAL	0.0	18 un	02-20-1998
[3]	LRC-13	NTSC	0.0	10 un	06-01-1998
[4]	9804420	PAL	0.2	18 un	09-08-1998
[5]	Lrc-20	PAL	0.0	10 un	09-09-1998
[6]	9806488	NTSC	0.1	18 un	12-14-1998

<== ok? (y/n)

Move:Cursor key Select:[ENTER] key Cancel:[ESC] key

Linearity monitor system of track
using AIF error signal for DUCPRO

-- LISTA PRO HD --
[DUCPRO]
(for DUCPRO HD VTR)

<<< VTR SELECT >>>

<1> A J - H D 1 5 0
<2> A J - H D C 2 0

Move:Cursor key Select:[ENTER] key

<<In case Alignment Tape data is not registered >>

<< Alignment Tape Select >> Last Select [4]

No.	Serial No.	PAL/NTSC	Check Sum	Type	Entry Date
[1]	0000	NTSC	0.0	18 un	10-05-1995
[2]	0000	PAL	0.0	18 un	02-20-1998

Move:Cursor key Select:[ENTER] key Cancel:[ESC] key

- Next, select the Serial number of the Alignment tape on the screen. If LISTA software does not have alignment tape data registered, data entry is needed. Press the ESC key, then main menu is displayed on the screen. And select the item "<4> Alignment Tape" for entry the data on the attachment sheet, which is enclosed with alignment tape.
- If LISTA software has data of alignment tape, select the serial number of Alignment tape, then message "ok?(y/n)" appears on the screen. And press "Y" or "ENTER" key, then LISTA main menu is displayed on screen.

1-30. How to Entry the Attachment Data of Alignment Tape

1. Select the item "<4> Alignment Tape" on the LISTA main menu.
2. Select the item "<2> ENTRY" on the alignment menu.
3. After the screen of <<Alignment Tape Data Entry>> is displayed, first input the Serial Number of alignment tape printed on the label. And input the number "0" or "1" to select the PAL/NTSC. And after that for entry the tape type, input to "0" for DVCPRO.
4. After select the tape type, the frame for input the DATA and CHECK SUM appears on the screen. Input the numerical value on the data sheet, which are enclosed with alignment tape. If input the wrong number, the error message appears on the screen, then confirm the data on the sheet.
5. After entry the data, select "<1> SELECT" on the Alignment Tape Menu and select the serial number of the alignment tape.

<< Alignment Tape Data Entry >> Serial No. 0596003 (NTSC) 18um

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

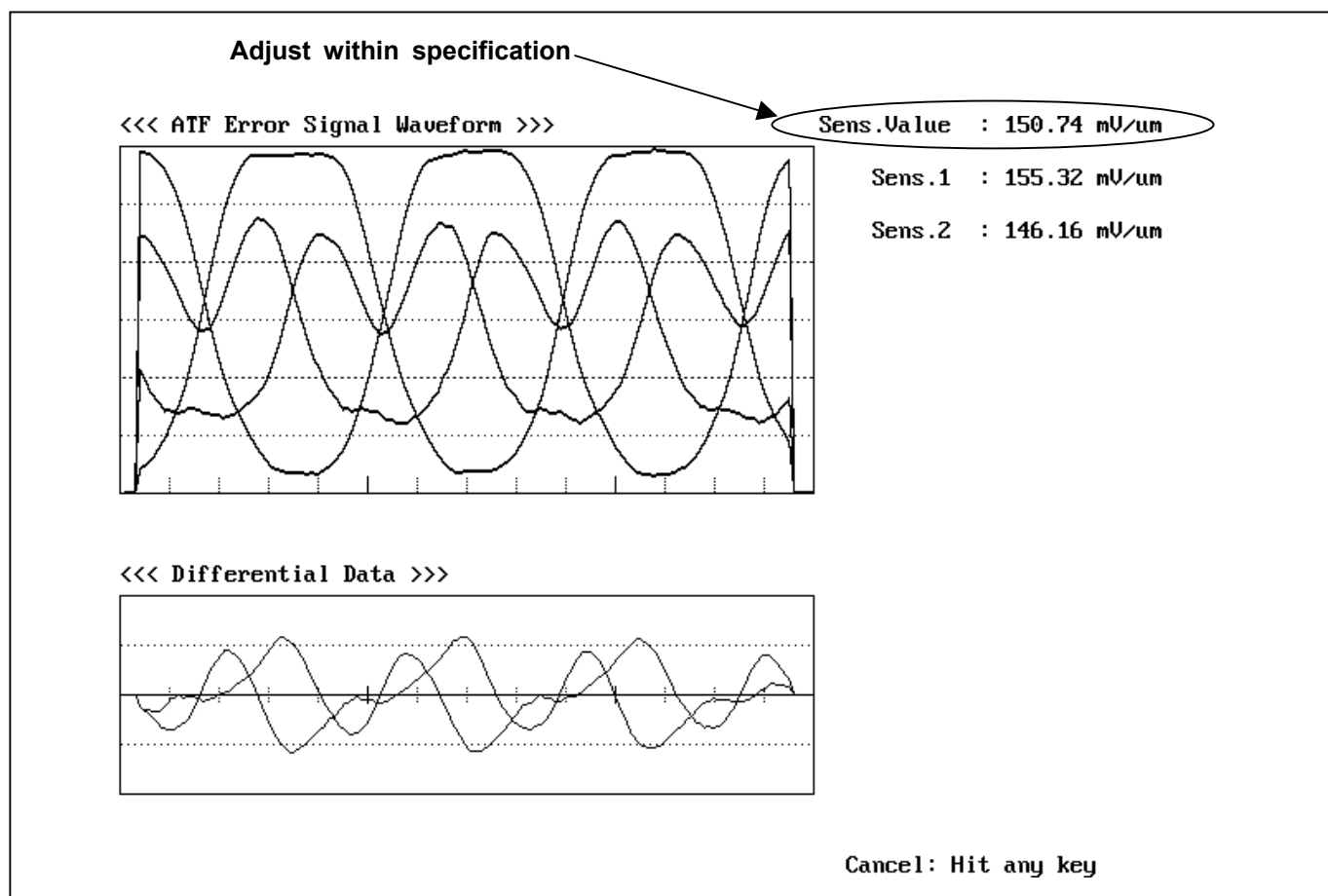
[CS]	- 0.6
------	-------

1-31. LISTA Sensitivity Adjustment and Sensitivity Detection

TP	ATF	ATF ERR L13 : TP15(RF/EQ)	TRG	R/P-HSW L13 : TP1(RF/EQ)
		ATF ERR L24 : TP35(RF/EQ)		R/P-HSW L24 : TP3(RF/EQ)
	GND : TG5			
VTR MODE	PLAY			
ADJ. MODE	Service Menu "A08:RPL GAIN 100"			
ADJ.	Service Menu "A08:RPL GAIN 100"			
TAPE	VFM3581KL			
SPEC.	150mV/um \pm 15mV/um			

Sensitivity Adjustment Procedures

1. Connect the each clips of LISTA cable to the test point.
2. Set the adjustment mode according to adjustment heads.
3. Playback the LISTA Alignment Tape
4. Select the item "<6> ATF Error Signal Monitor" on the LISTA main menu, and after message "1.2% Speed. . ." appears on the screen, press the Enter key, then sensitivity value and waveform on the real time appear on the screen as shown figure below.
5. Adjust EVR so that the "Sens. Value" on the upper right corner of the screen is within the specification.
After finish this adjustment, press the ESC key to return to the main menu.



Sensitivity Detection Procedures

1. Set the adjustment mode. (Refer to “ LISTA Adjustment Mode” of “2. Table of TP”
2. Playback the LISTA Alignment tape.
3. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen, press the Enter key, and then start measurement of the sensitivity value.
4. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
5. If it is out of specification, repeat the step item 3,4. If still out of specification, perform the “Sensitivity Adjustment” again.
6. After finish this adjustment, eject the tape and turn OFF the power.

<< Sensitivity Measurement Finish >>

Sensitivity 101.58 (mv/um)

Confirm this value

Sens.1 104.72 (mv/um)

Sens.2 98.44 (mv/um)

Please change VTR Tape Speed Mode

(+1.2% Speed => Normal Speed)

<<< Hit any key >>>

1-32. LISTA Linearity Adjustment and Waving Measurement

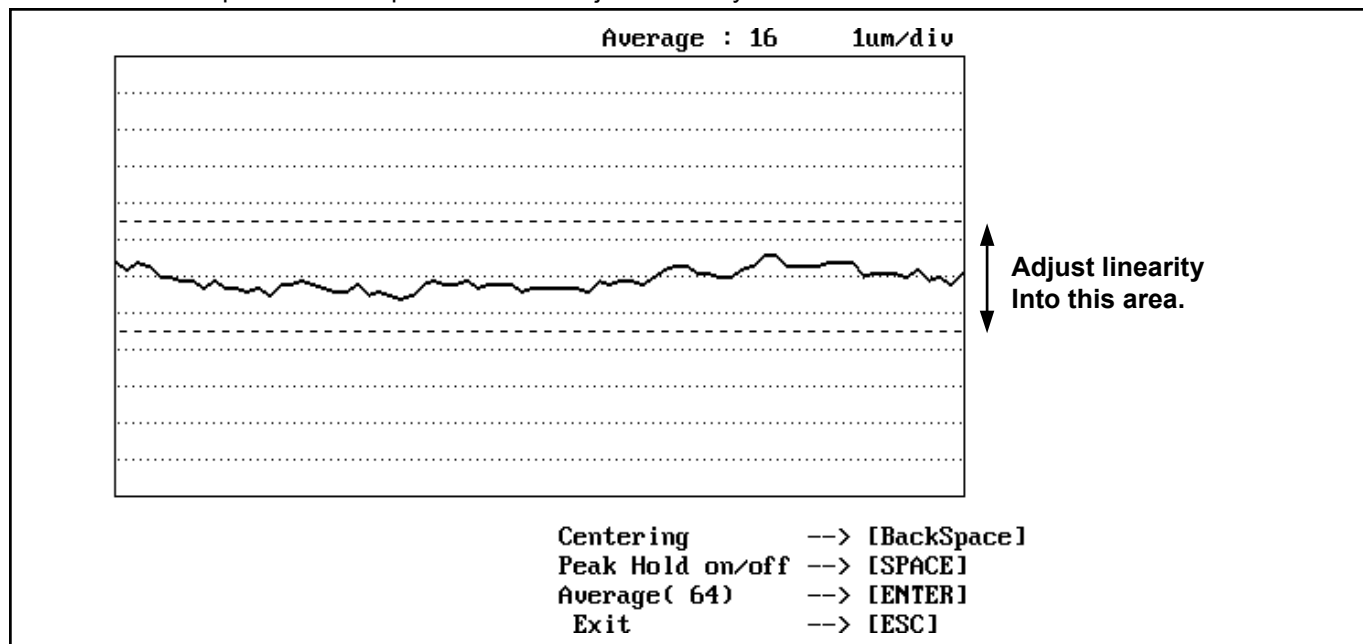
TP	ATF	ATF ERR L13 : TP15 (RF/EQ)	TRG	R/P-HSW L13 : TP1 (RF/EQ)
		ATF ERR L24 : TP35 (RF/EQ)		R/P-HSW L24 : TP3 (RF/EQ)
	GND : TG5			
VTR MODE	PLAY			
ADJ. MODE	Service Menu"A09:RPL LIN 100"			
ADJ.	Height of S1 and T1 Post			
TOOL	Post Driver (VFK1149A)			
TAPE	VFM3581KL			
SPEC.	Linearity : less than 3 μ m, Waving : less than 1.5 μ m			

Linearity Adjustment Procedures

1. Connect the each clips of LISTA cable to test point.
2. Set the adjustment mode according to adjustment heads.
3. Playback the LISTA Alignment Tape.
4. Select the item "<2> Linearity Measurement" on the LISTA Main Menu, then Linearity Waveform appears.
5. When the waveform as shown below is displayed on the screen, press the "BS (Back Space)" key to move the waveform at the center of the scale on screen. Adjust S2 and T2 post height by using the post driver so that the linearity waveform becomes as flat as possible, and it should be within the specification.
(♦ Adjust linearity to have waveform in between the red dot lines on the screen.)

Note :

The envelope should be quadrate when adjust Linearity.



POINT :

The part of left side of waveform (entrance side) is adjusted by height of S1 post and part of right side of waveform (exit side) is adjusted by height of T1 post.

Lower part of above waveform of figure is displayed lead of Cylinder.

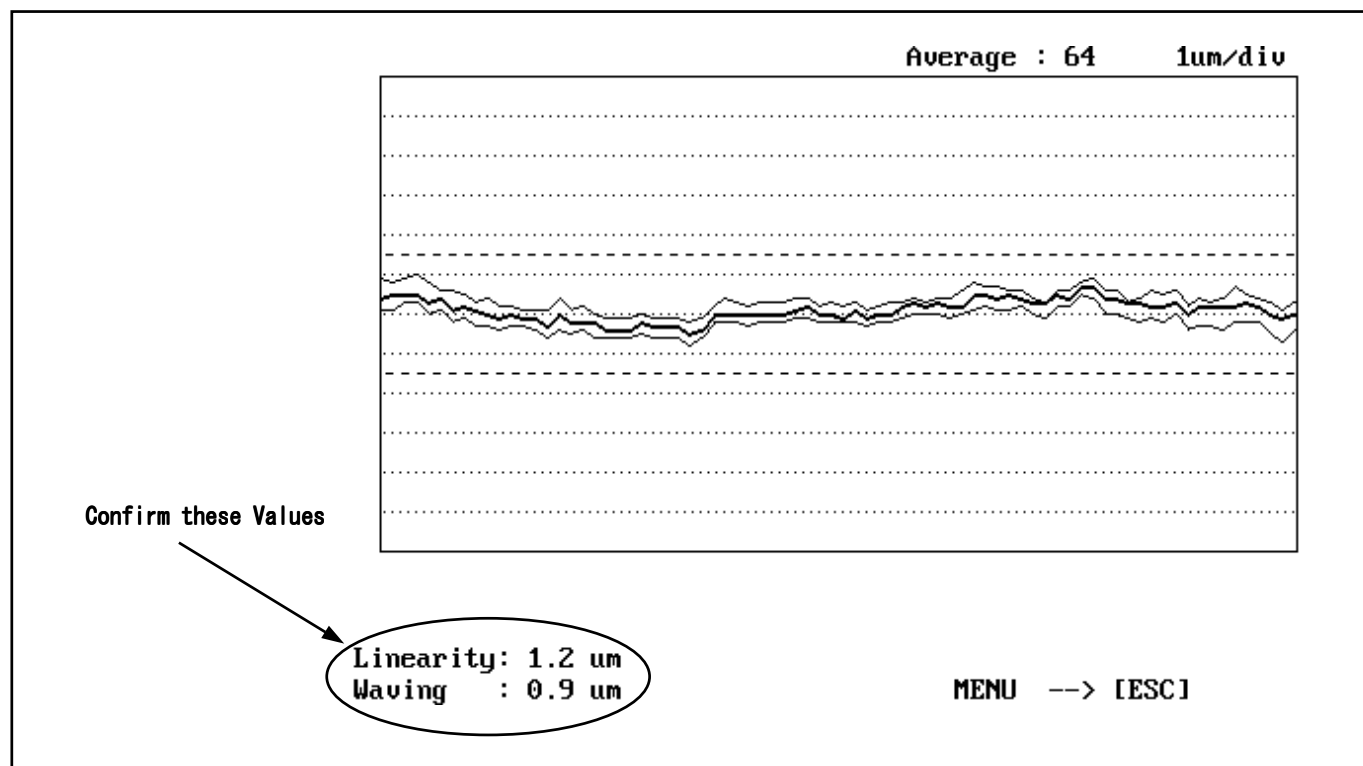
When the post driver is removed from upper part of post, linearity waveform may be changed.

After finish this adjustment. eject the tape and insert the tape again to confirm the shape of linearity waveform

6. After finish the Linearity Adjustment , perform next Waving Measurement Procedures.

Waving Measurement Procedures

1. Press "SPACE" key to perform the Peak Hold in 30 seconds when linearity is displayed.
2. After finish the Peak Hold, press "SHIFT" and "}" key simultaneously on the Key Board, then the numerical values of "Linearity" and "Waving" is displayed on left lower portion of screen. And confirm the numerical values are in the specification. Also confirm the waving is same level from entrance side to exit side. If the "Linearity" and "Waving" are out of specification and also it caused by insufficient limit of entrance or exit side of envelope, adjust height of S2 and T2 post.
3. After this measurement is finished, press the ESC key to return to the main menu.



Information : How to save the LISTA data.

Linearity waveform data and measurement value of linearity and waving can be saved as one file data to PC.

1. Basically this operation should be performed after linearity and waving measurement is finished.
2. Select the item "<3> Data Save/Load" on the LISTA main menu, and select the item "<1> Save".
3. The linearity waveform as Peak Hold is displayed on the screen, and message "File Name?" appears on the screen. Then entry the File Name less than 8 letters. And after message "Comment?" appears on the screen, then entry the Comment less than 20 letters. As comment, entry the Serial Number, Model Number, Head Rotation Hours etc to use them for management of each VTR's linearity data.
4. After completion of saving, select the item "<2> Load" of the item "<3> Data Save/Load", then the saved File Name appears on the screen. And select previously saved file to confirm the waveform and numerical value is displayed correctly. By pressing "SHIFT" and "}" key simultaneously on the Key Board, the numerical values of "Linearity" and "Waving" is displayed on left lower portion of screen.

1-33. Self-REC/PLAY Envelope Waveform Confirmation

SPEC.	<p>All of the head output are within the specification as shown below.</p> <p>· When using the M Cassette (66 min.) or L Cassette (126 min.)</p> $V1/V_{max}, V3/V_{max} \geq 0.7$ $V2/V_{max} \geq 0.8$ <p>When using the Long Time L Cassette</p> $V1/V_{max}, V2/V_{max}, V3/V_{max} \geq 0.7$
TP	<p>R/P ENV L13 : TP11(RF/EQ)(F1)</p> <p>R/P ENV L24 : TP311(RF/EQ)(F1)</p> <p>R/P ENV R13 : TP21(RF/EQ)(F1)</p> <p>R/P ENV R24 : TP41(RF/EQ)(F1)</p> <p>R/P HSW L13 : TP1(RF/EQ)(F1)</p> <p>R/P HSW L24 : TP3(RF/EQ)(F1)</p> <p>R/P HSW R13 : TP2(RF/EQ)(F1)</p> <p>R/P HSW R24 : TP4(RF/EQ)(F1)</p>
MODE	REC, PLAY
M. EQ.	Oscilloscope
TAPE	<ul style="list-style-type: none"> • M Cassette (66 min.) or L Cassette (126 min.) • Long play L Cassette

1. Input the color bar signal and record it.
2. Playback the just recorded portion, and confirm the ENV output is within the specification.
3. If it is out of specification, execute the items "ENV Waveform Adjustment" and "LISTA Adjustment".
4. Execute the same confirmation with Long Play Tape (L-Cassette) too.

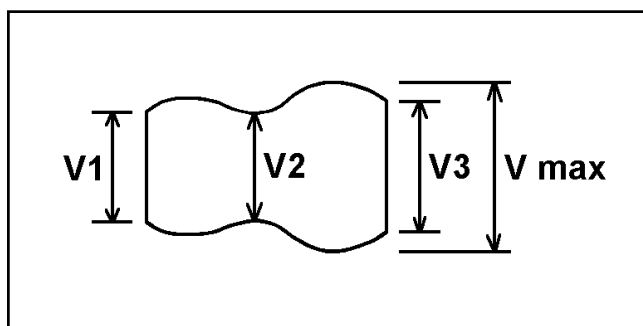


Figure 1-33

SECTION 5

ELECTRICAL ADJUSTMENT

CONTENTS

1. POWER Circuit Board

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- 1-2. Adjustment of the Battery Voltage Detection EAD-1

2. V OUT Circuit Board

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- 2-2. 14.3 MHz VCO Adjustment EAD-2
- 2-3. The Burst Sampling Phase Adjustment..... EAD-3
- 2-4. CF Phase Adjustment (1) EAD-3
- 2-5. CF Phase Adjustment (1) EAD-4
- 2-6. The Composite Output Level Adjustment..... EAD-4
- 2-7. The Composite Sync Level Adjustment..... EAD-5
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3. AUDIO (APROC circuit board, RF/CUE circuit board)

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- 3-2. Output Level adjustment for CH1 to CH2 EAD-7
- 3-3. Output Level adjustment for CH1 to CH2 EAD-8
- 3-4. The CUE Bias Current Adjustment..... EAD-8
- 3-5. The CUE Recording and Playback Level Adjustment EAD-9

1. POWER Circuit Board

1-1. Power Supply Circuit Board (1)

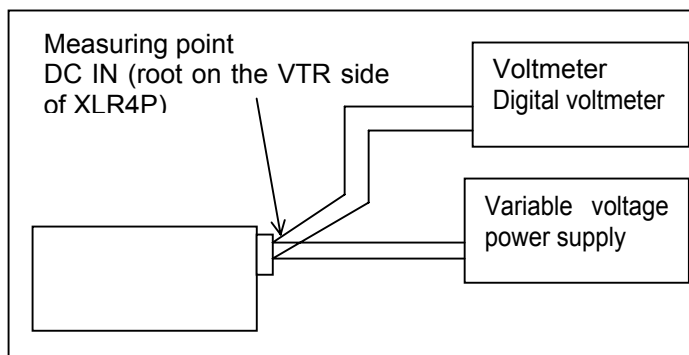
C.B.A.	POWER3		
Item	Test point	ADJ	SEPC
+1.8 V adjustment	TP1	VR2	+1.92 ± 0.05V
+1.2 V adjustment	TP2	VR3	+1.40 ± 0.05V

※GND test point: TP1604

1-2. Adjustment of the Battery Voltage Detection

C.B.A	-----
SEPC	+12.00 ± 0.02V
TP	DC IN (root on the VTR side of XLR4P)
ADJ	Service menu: H21
INPUT	-----
Mode	EJECT
Tape	-----
M. EQ	Digital voltmeter

1. Adjust the output of the connected variable voltage power supply so that the voltage at the measuring point meet with the specification.
2. Open the service menu and set"H21: UNDERCUT ADJ".
3. Keep the "MODE" button pressed and confirm that the display is updated.
4. Close the service menu.



2. V OUT Circuit Board

2-1. 74 MHz VCO Adjustment

C.B.A	V OUT
SEPC	74,175824 ± 5Hz
TP	TP201, TG202 (GND)
ADJ	VR200 (74M)
INPUT	-----
Mode	EE
Tape	-----
M. EQ	Frequency counter

1. Connect the frequency counter to TP201.
2. Adjust VR200 so that the frequency becomes 74,175,824 ± 5 Hz.

2-2. 14.3 MHz VCO Adjustment

C.B.A	V OUT
SEPC	14,318180 ± 100Hz
TP	TP158, TG202 (GND)
ADJ	VR150 (4FC)
INPUT	-----
Mode	EE
Tape	-----
M. EQ	Frequency counter

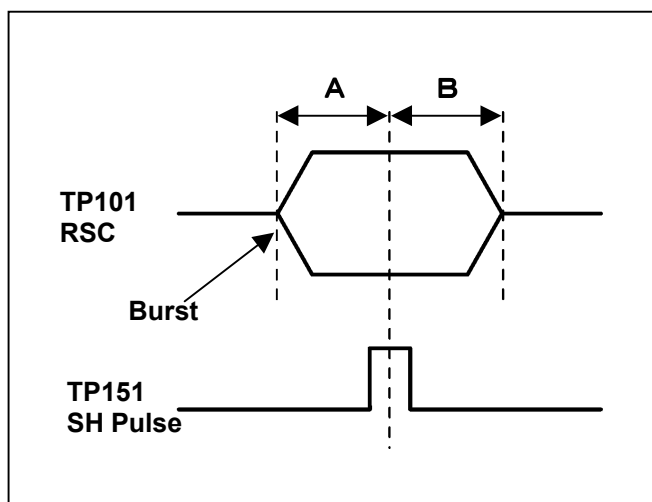
1. Set No. 2 of SW101 on the F3 circuit board to ON, open the service menu, and then set F21: 4FSC ADJ-SD to FRE.
2. Connect the frequency counter to TP158.
3. Adjust VR150 so that the frequency becomes 14,318180 ± 100 Hz.

2-3. The Burst Sampling Phase Adjustment

C.B.A	V OUT
SEPC	$A = B \pm 10\%$
TP	TP101 , TP151
ADJ	VR151 (S/H)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

1. Connect CH1 of the oscilloscope to TP101 and CH2 to TP151.
2. Adjust VR151 so that A and B is in the specification when the center of TP151 (S/H pulse signal) coincide with the center of TP101 (burst signal) as following figure.

Note: Use the rising edge of TP151 as the trigger.

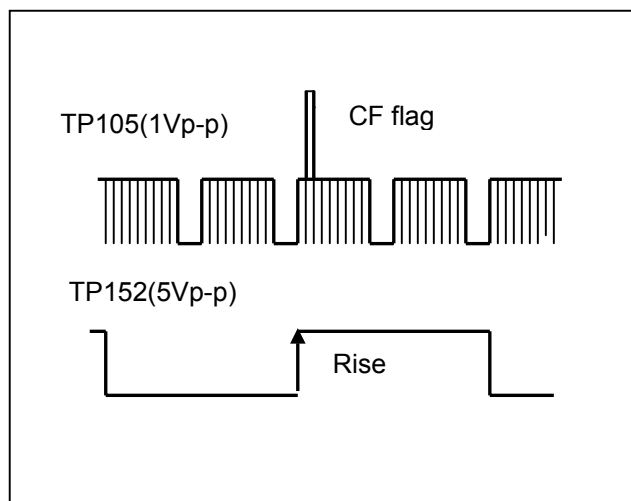


2-4. CF Phase Adjustment (1)

C.B.A	V OUT
SEPC	Refer to the following figure.
TP	TP152 , TP105
ADJ	VR152 (CF)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

1. Set No. 2 of SW101 on the F3 circuit board to ON.
2. Connect CH1 of the oscilloscope to TP105 and CH2 to TP152.
3. Adjust VR152 so that the rising edge of CF Flag of TP105 coincides with the rising edge of TP152 and that the SCH lamp on the front pane lights.

Note: Use the rising edge of the CF flag of TP105 as the trigger.

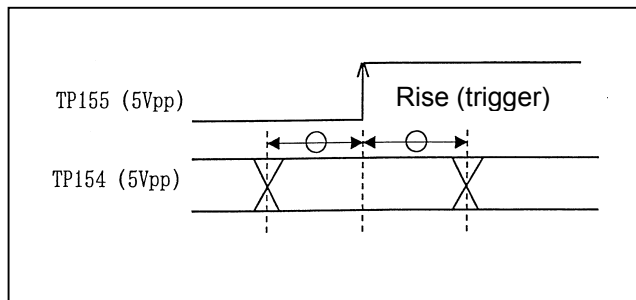


2-5. CF Phase Adjustment (1)

C.B.A	V OUT
SEPC	Refer to the following figure.
TP	TP154 , TP155
ADJ	VR152 (CF)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

1. Connect CH1 of the oscilloscope to TP155 and CH2 to TP154.
2. Trigger with the rising edge of TP155 and magnify that part.
3. Adjust VR152 so that the rising edge of TP155 comes to the center of the data of TP154.

Note: When VR152 is turned too far, the CF phase of the CF phase adjustment (1) may reverse. In such a case, adjust again from the CF phase adjustment (1) of the preceding page.

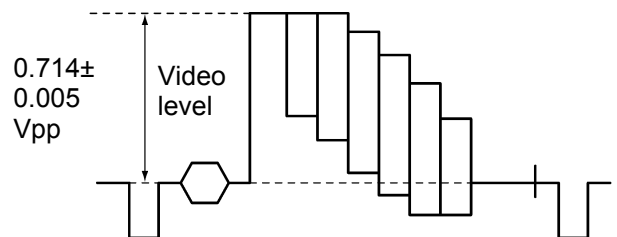


2-6. The Composite Output Level Adjustment

C.B.A	V OUT
SEPC	0.714 ± 0.005 Vpp
TP	VIDEO OUT 1
ADJ	VR701 (ENL)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

1. Set No. 2 of SW101 on the F3 circuit board to ON, open the service menu, and the set to "F20: INT SD (SD)-CB".
2. Observe the output of VIDEO OUT and adjust VR701 so that the video level is within the specification.

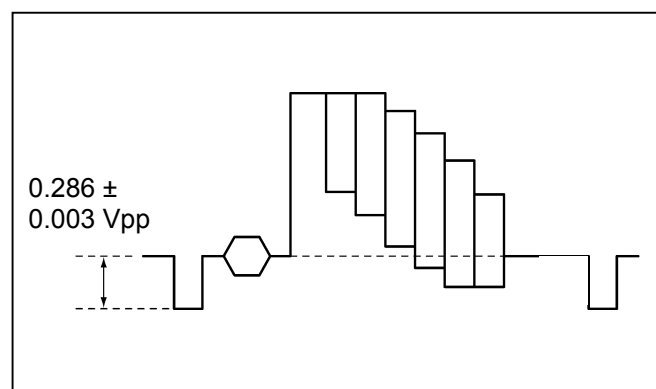
VIDEO OUT 1



2-7. The Composite Sync Level Adjustment

C.B.A	V OUT
SEPC	0.286 ± 0.003 Vpp
TP	VIDEO OUT 1
ADJ	VR700 (SYL)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

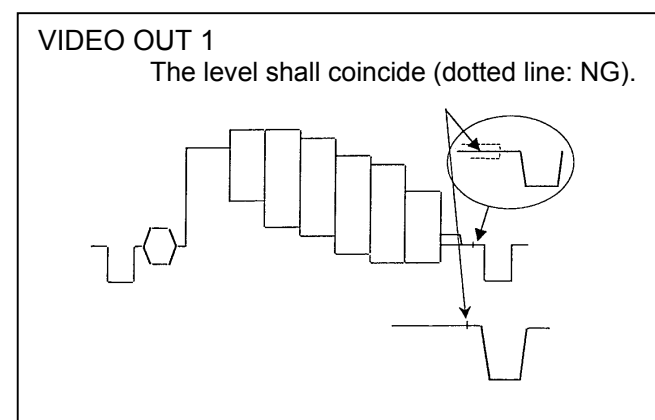
1. Set No. 2 of SW101 on the F3 circuit board to ON, open the service menu, and the set to "F20: INT SD (SD)-CB".
2. Adjust VR700 so that the sync level is within the specification.



2-8. The Composite Sync Offset Level Adjustment

C.B.A	V OUT
SEPC	Refer to the following figure.
TP	VIDEO OUT 1
ADJ	VR702 (SYO)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

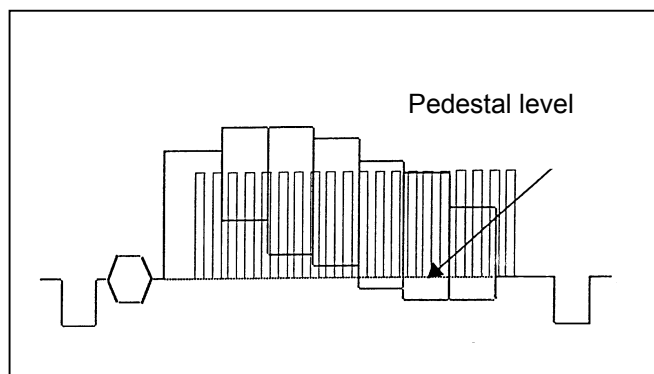
1. Set No. 2 of SW101 on the F3 circuit board to ON, open the service menu, and the set to F20: INT SD (SD)-CB.
2. Adjust VR702 so that the reference level of VIDEO OUT 1 at the sync part coincides with the pedestal part.



2-9. The DC Level of the Composite Output Adjustment

C.B.A	V OUT
SEPC	Refer to the following figure.
TP	VIDEO OUT 2
ADJ	VR703 (DC)
INPUT	REF IN: BLACK BURST signal (with CF Flag)
Mode	EE
Tape	-----
M. EQ	Oscilloscope

1. Set No. 2 of SW101 on the F3 circuit board to ON, open the service menu, and the set to F20: INT SD (SD)-CB.
2. Adjust VR703 so that the character black level of VIDEO OUT 2 coincides with the pedestal DC.



3.AUDIO (APROC circuit board, RF/CUE circuit board)

3-1. Setup Mernu Settings

<Initial settings>

- Set the front switches as shown below.
 REC VR(CH1, 2, 3, 4) : "PUSH status"
 HP VR : "CENTER"
 HEAD PHONES : "ST"
 REMOTE/LOCAL : "LOCAL"
- Open the AUDIO items (No. 7xx) of the user menu and set as follows.

700	AUDIO IN SEL	ANA
701	CH1 IN LV	4dB
702	CH2 IN LV	4dB
703	CH3 OUT LV	4dB
704	CH4 OUT LV	4dB
706	CH1 OUT LV	4dB
707	CH2 OUT LV	4dB
708	CH3 OUT LV	4dB
709	CH4 OUT LV	4dB
730	REC CUE	CH1+2
731	PB FADE	AUTO
732	EMBEDED AUD	ON
765	CUE OUT SEL	OFF
769	MONI SEL	PLYPCN
770	MONITOR MIX	STEREO
771	P.PHONE MIX	STEREO
772	LINE MIX	OFF
780	AUD OUT SEL	LINE
781	IN IMP SEL	600

This status corresponds to the initial settings.

3-2. Output Level adjustment for CH1 to CH2

C.B.A	APROC
SEPC	+4dBm±0.2dBm
TP	LINE OUT (CH1~CH4)
ADJ	VR600 (CH1 OUT LV) VR601 (CH2 OUT LV) VR602 (CH3 OUT LV) VR603 (CH4 OUT LV)
Tape	-----
INPUT	FS-20(NTSC), INT SG
Mode	EE
M. EQ	Audio Analyzer

- Set the DIP SW651-1 on the SYSCON circuit board to ON to be INT SG mode.
- Adjust VR600 (CH1), VR601 (CH2), VR602 (CH3), and VR603 (CH4) so that the LINE OUT level for CH1 to CH4 becomes +4 dBm ± 0.2 dBm.
- Confirm that the level meters of CH1 and CH2 indicate -20 dB.
- Switch to the meters for CH3 and CH4 and confirm the same thing. After confirmation, return the indication to CH1 and CH2.

Note:

Observe MONITOR OUT of the Audioprecision with an oscilloscope and confirm that it is a normal sine curve.

3-3 Output Level adjustment for CH1 to CH2

C.B.A	APROC
SEPC	+4dBm \pm 0.2dBm
TP	LINE OUT (CH1~CH4)
ADJ	VR400 (CH1 IN LV) VR401 (CH2 IN LV) VR402 (CH3 IN LV) VR403 (CH4 IN LV)
Tape	-----
INPUT	Sine curve (BAL)
Mode	EE
M. EQ	Audio Analyzer oscilloscope

1. Adjust VR400 (CH1), VR401 (CH2), VR402 (CH3), and VR403 (CH4) so that the LINE OUT level of CH1 to CH4 becomes +4 dBm \pm 0.2 dBm.

3-4 The CUE Bias Current Adjustment

C.B.A	RF/CUE
SEPC	7mVrms \pm 0.5mVrms
TP	TP4002,TP4003(GND)
ADJ	VR4001(BIAS)
Tape	-----
INPUT	-----
Mode	REC
M. EQ	Audio Analyzer V TVM

Note:

Measuring with the V TVM shall be done in a mode permitting measuring of a 70 kHz signal (WIDE BAND etc.).

1. Connect the V TVM between TP4002 and TP4003 (GND) and adjust VR4001 so that their levels are within the specification.

3-5. The CUE Recording and Playback Level Adjustment

C.B.A	RF/CUE
SEPC	+4dBm \pm 1dBm
TP	TP4002,TP4003(GND)
ADJ	VR4002(REC CURR)
Tape	-----
INPUT	Sine wave (BAL)/LINE IN (CH1, 2)
Mode	Self recording and playback
M. EQ	Audio Analyzer oscilloscope

1. Input a sine wave (BAL) to LINE IN CH1 and CH2.

Note:

Confirm that the setting for user menu (730) REC CUE is CH1+2.

2. Confirm that the playback level is +4 dBm \pm 1 dBm when a sine wave (BAL) is recorded and played back.
3. If the playback level is out of the specification, adjust VR4002 (REC CURR) and perform recording and playback again.
Repeat this procedure.

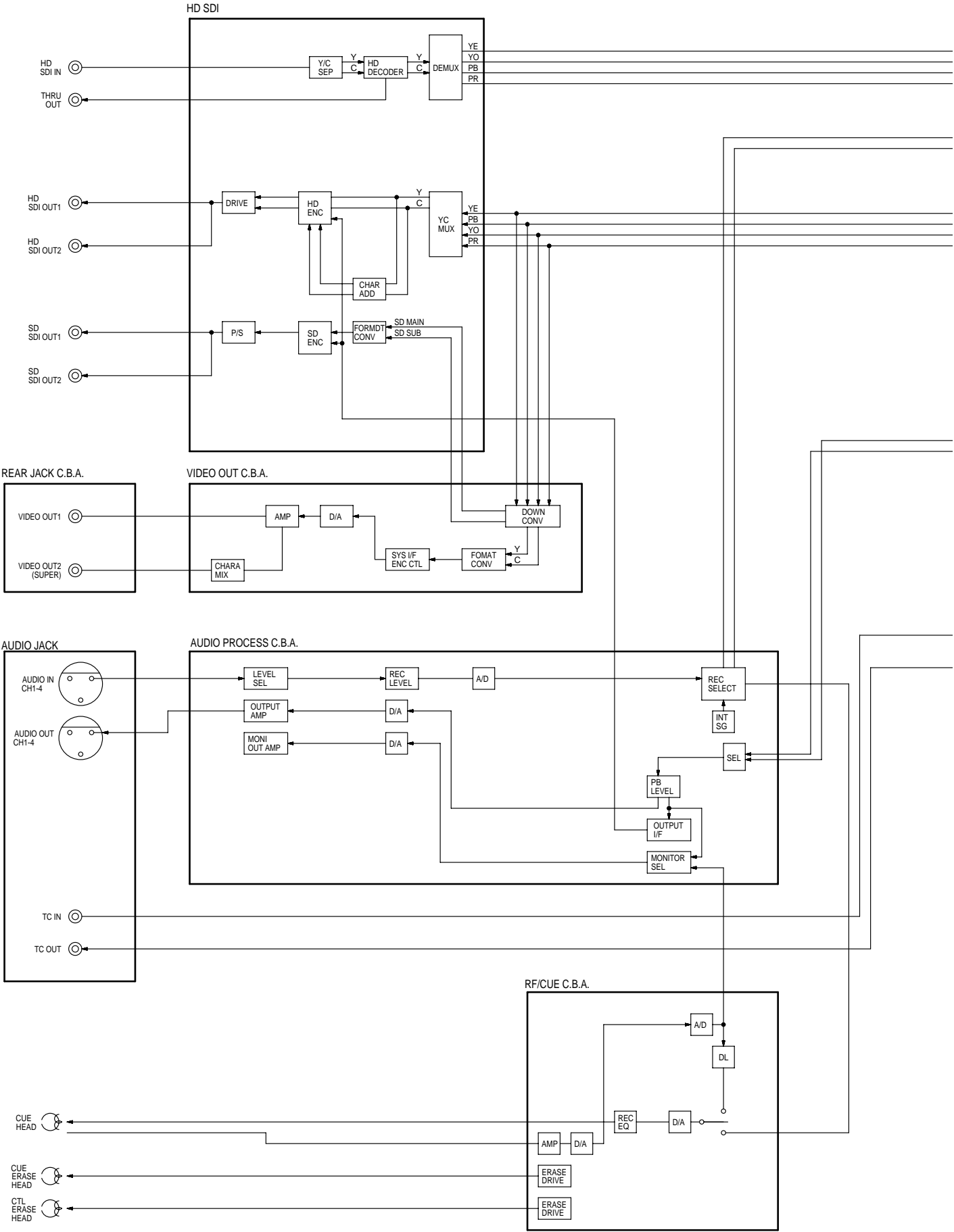
SECTION 6

BLOCK DIAGRAMS

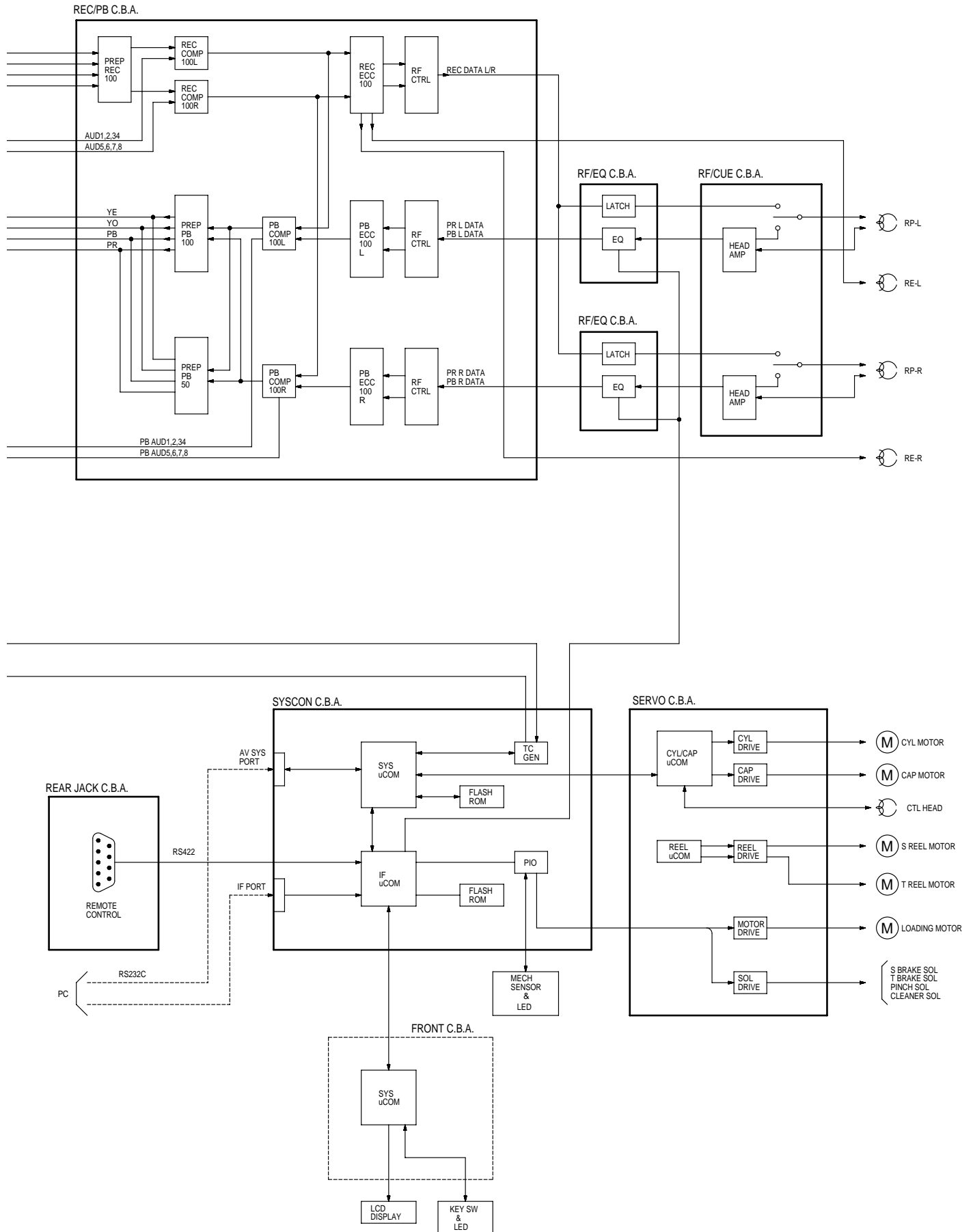
CONTENTS

OVERALL BLOCK DIAGRAM	BLK-1
REC/PB BLOCK DIAGRAM	BLK-3
VIDEO OUT BLOCK DIAGRAM.....	BLK-5
HD SDI BLOCK DIAGRAM	BLK-7
RF/EQ BLOCK DIAGRAM.....	BLK-9
RF/CUE BLOCK DIAGRAM	BLK-10
AUDIO BLOCK DIAGRAM	BLK-11
SYSCON BLOCK DIAGRAM	BLK-13
SERVO BLOCK DIAGRAM	BLK-15

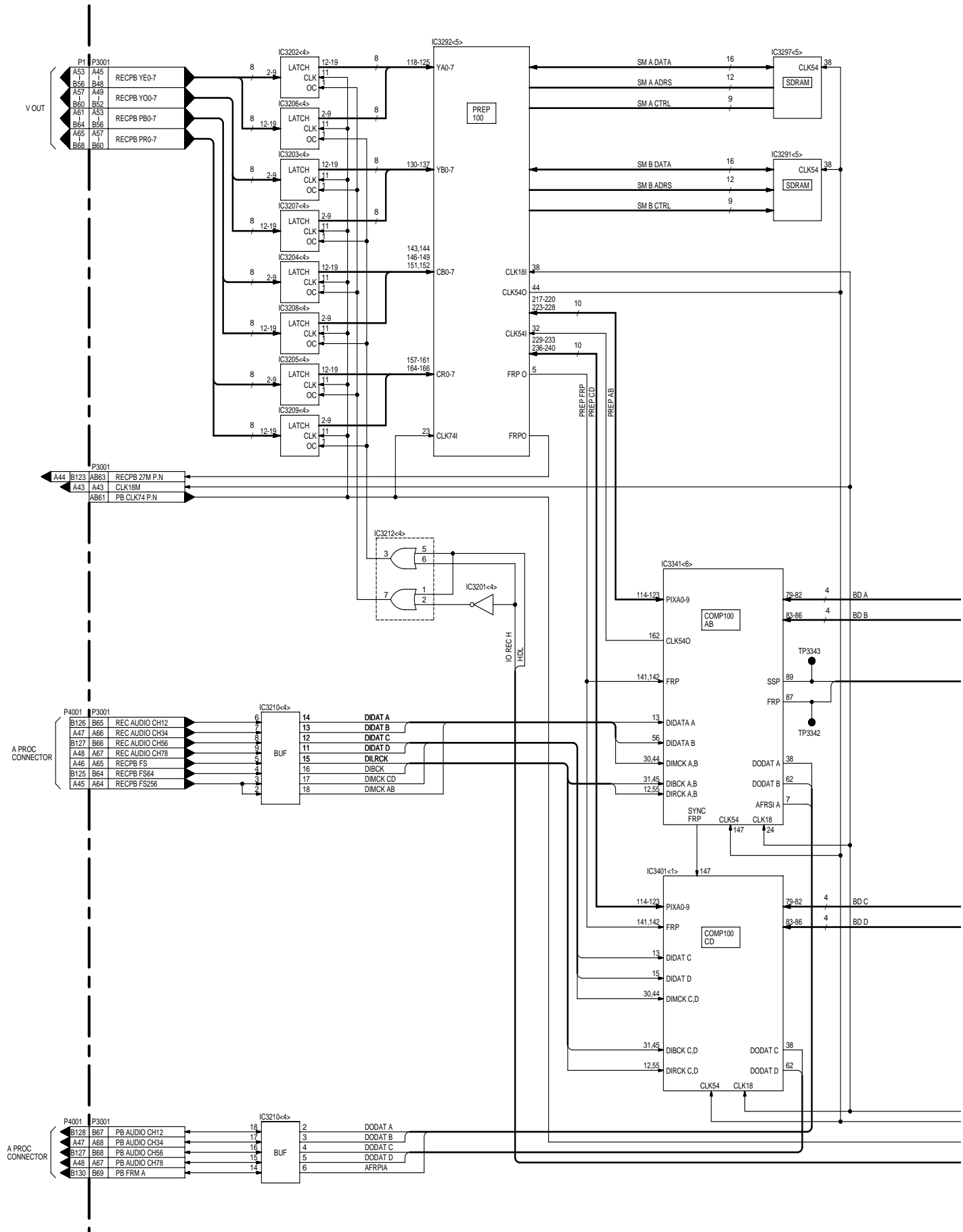
OVER ALL BLOCK DIAGRAM



OVER ALL BLOCK DIAGRAM

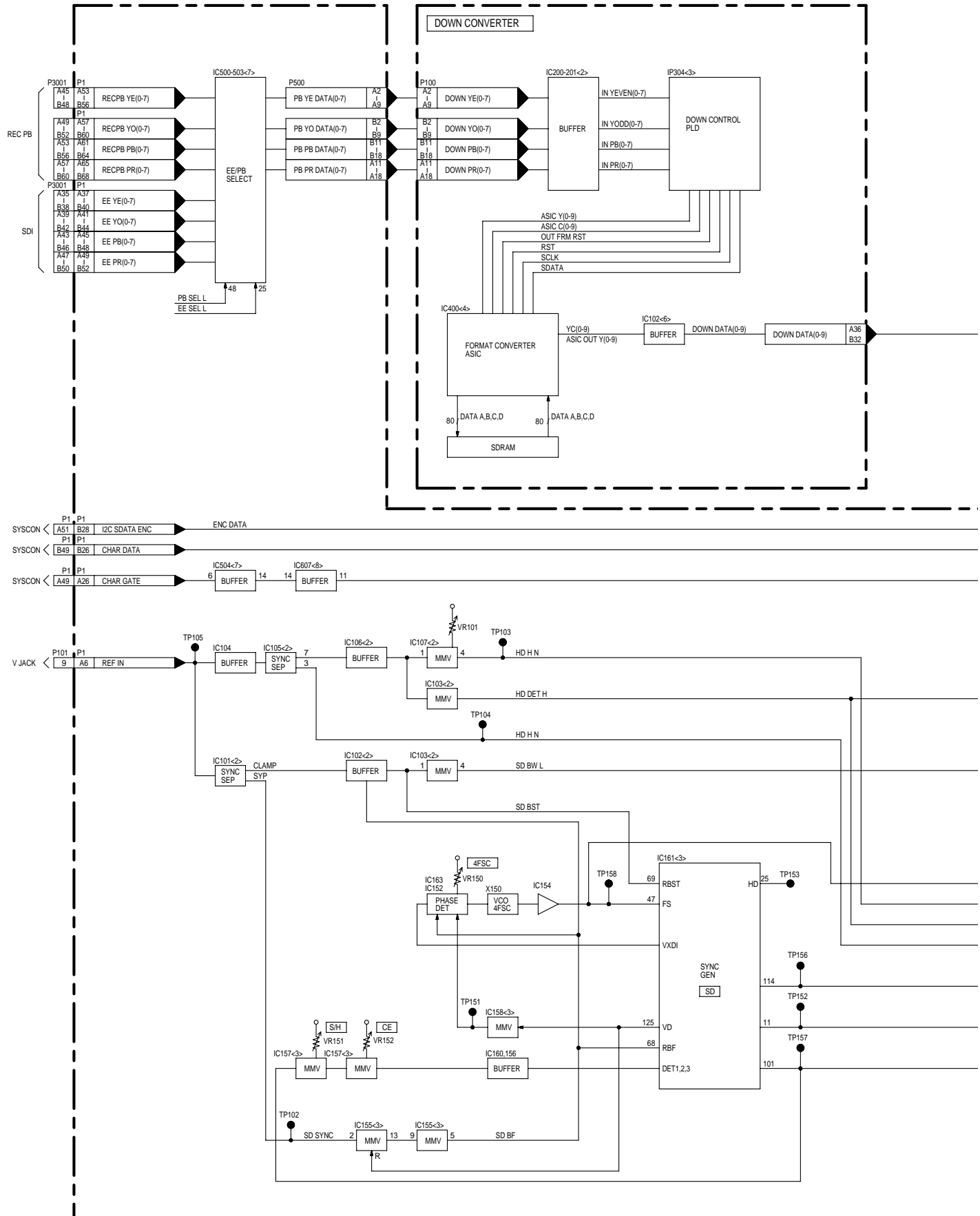


REC/PB BLOCK DIAGRAM



VIDEO OUT BLOCK DIAGRAM

AJ-HD130DC BLOCK DIAGRAM



The diagram illustrates the video processing system architecture, divided into two main sections: the top section for video data processing and the bottom section for sync and timing control.

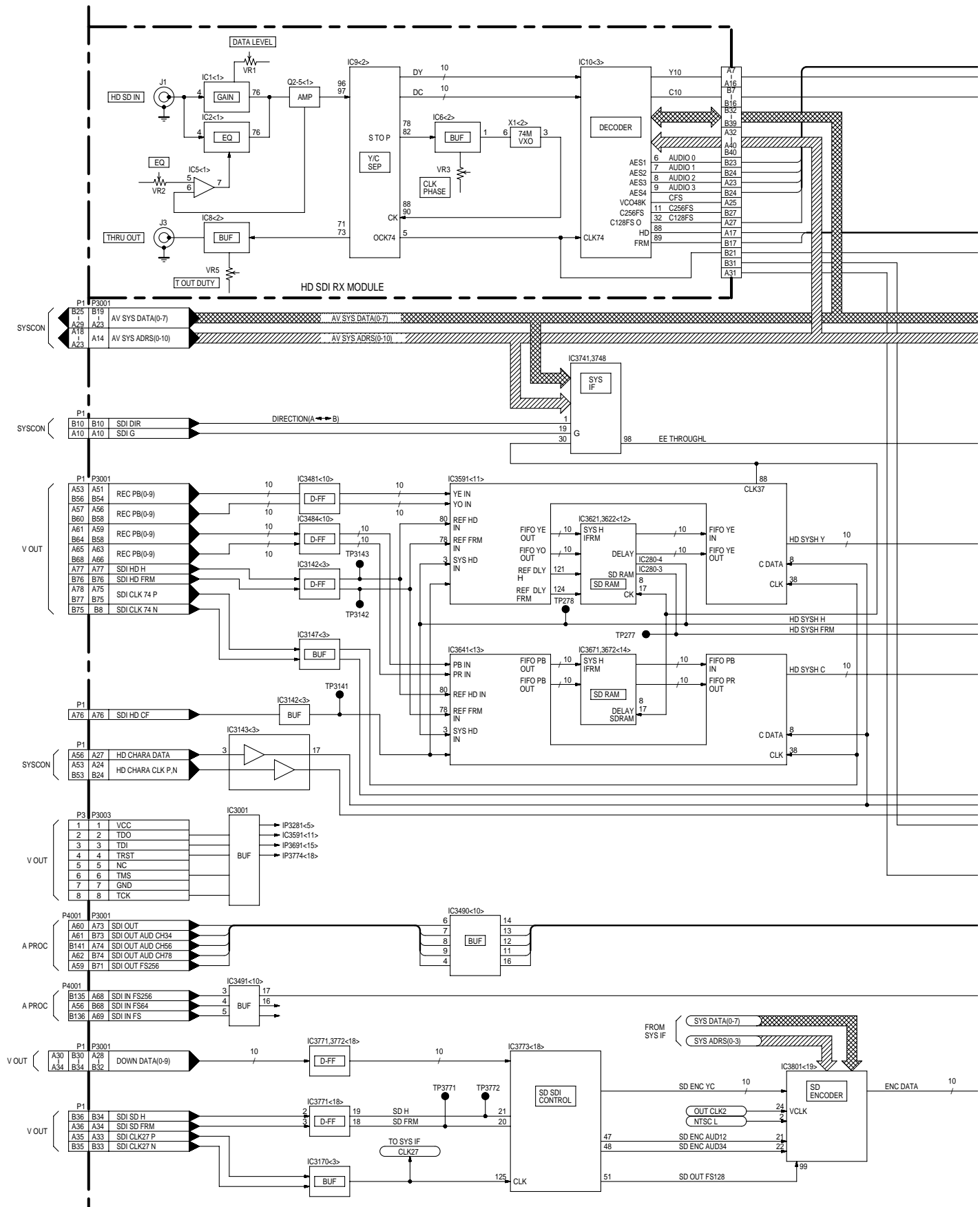
Top Section: Video Data Processing

- Inputs:**
 - DATA IN:** Provided by A30/B34 (DOWN DATA(0-9)).
 - IP500<8>:** Receives DATA IN and provides CLK, ADRS/DATA, and VITC(0-7) signals.
 - IC605<8>:** Receives CLK and ADRS/DATA, providing V DATA-IC.
 - IC700:** Receives VITC(0-7) and provides VR700 (SYL) and VR702 (SYO) signals.
 - IC701<9>:** Receives SYS DATA(0-7) and provides P0, P7, and SDA signals.
 - IC702:** Receives P0 and P7, providing VR701 (ENL) and VR703 (DC) signals.
 - IC703-704:** Receives VR703 (DC) and VR704 (FRQ) signals, providing a FILTER output.
 - IC705:** Receives the FILTER output and provides VIDEO OUT1.
 - IC710:** Receives the FILTER output and provides VIDEO OUT2.
 - IC706:** Receives the FILTER output and provides VIDEO OUT3.
 - IC709:** Receives SDA and provides CMPC.
 - IC609<8>:** Receives SGEN 74M and provides CHAR G DL.
- Outputs:**
 - VIDEO OUT1:** P1 P101 A7 > V JACK
 - VIDEO OUT2:** P1 P101 A8 > V JACK
 - VIDEO OUT3:** P1 P101 A9 > V JACK
- Internal Components:**
 - SYS I/F ENC CONTROL:** Receives DATA IN and provides CLK, ADRS/DATA, VITC(0-7), and SGEN 74M signals.
 - IC701<9>:** Provides P0, P7, and SDA signals.
 - IC702:** Provides VR701 (ENL) and VR703 (DC) signals.
 - IC703-704:** Provides a FILTER output.
 - IC705:** Provides VIDEO OUT1.
 - IC710:** Provides VIDEO OUT2.
 - IC706:** Provides VIDEO OUT3.
 - IC709:** Provides CMPC.
 - IC609<8>:** Provides CHAR G DL.

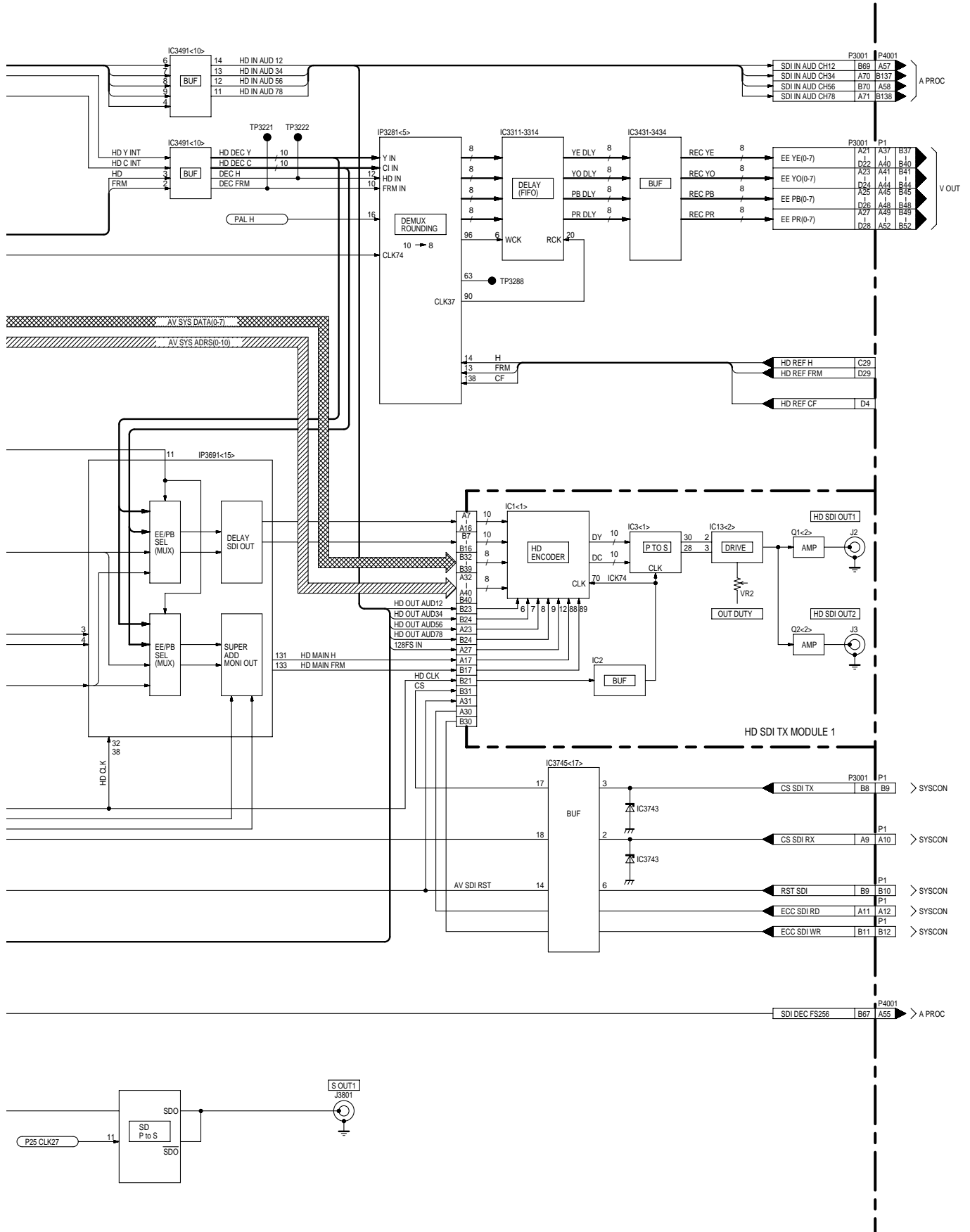
Bottom Section: Sync and Timing Control

- Inputs:**
 - SDREF 4FSC:** 126
 - HD H N:** 9
 - HD DET H:** 12
 - HDV IN:** 16
 - SD RFRM:**
 - SD RCF:**
 - SD RHS:**
- Internal Components:**
 - IP400<6>:** Receives SDREF 4FSC, HD H N, HD DET H, HDV IN, SD RFRM, SD RCF, and SD RHS. Provides HD PLL REF, HD PLL WIND, SD PLL REF, and SD PLL WIND signals.
 - IC200.202 IC203<4>:** Receives HD PLL REF and HD PLL WIND, providing HD PHASE ERROR.
 - TP201:** Receives HD PHASE ERROR and provides X200 and X201<4> signals.
 - VCO 74M:** Receives X200 and X201<4> signals, providing a VCO 74M output.
 - IC205<4>:** Receives VCO 74M and provides PB 74 M, SDI 74M, and DC 74M signals.
 - IC804.805 IC509<10>:** Receives PB 74 M and provides PB CLK 74P.N.
 - IC805<10>:** Receives SDI 74M and provides SDI CLK 74M P.N.
 - IC506<7>:** Receives DC 74M and provides DC 74M.
 - IC200 IC250<5>:** Receives SD PLL REF and SD PLL WIND, providing SD PHASE ERROR.
 - X250<4>:** Receives SD PHASE ERROR and provides X250<4>.
 - IC253.254:** Receives X250<4> and provides A PROC 27M.
 - SGEN DATA IN SYS H ENC 27M A PROC 27M SDI 27M PB SD27M DC SD27M:** Receives A PROC 27M and provides SGEN DATA IN, SYS H, ENC 27M, A PROC 27M, SDI 27M, PB SD27M, and DC SD27M signals.
- Outputs:**
 - PB CLK 74P.N:** P1 P3001 AB69 AB61 REC PB
 - SDI CLK 74M P.N:** P1 P3001 AB75 AB75 SDI
 - DC 74M:** P500 B38

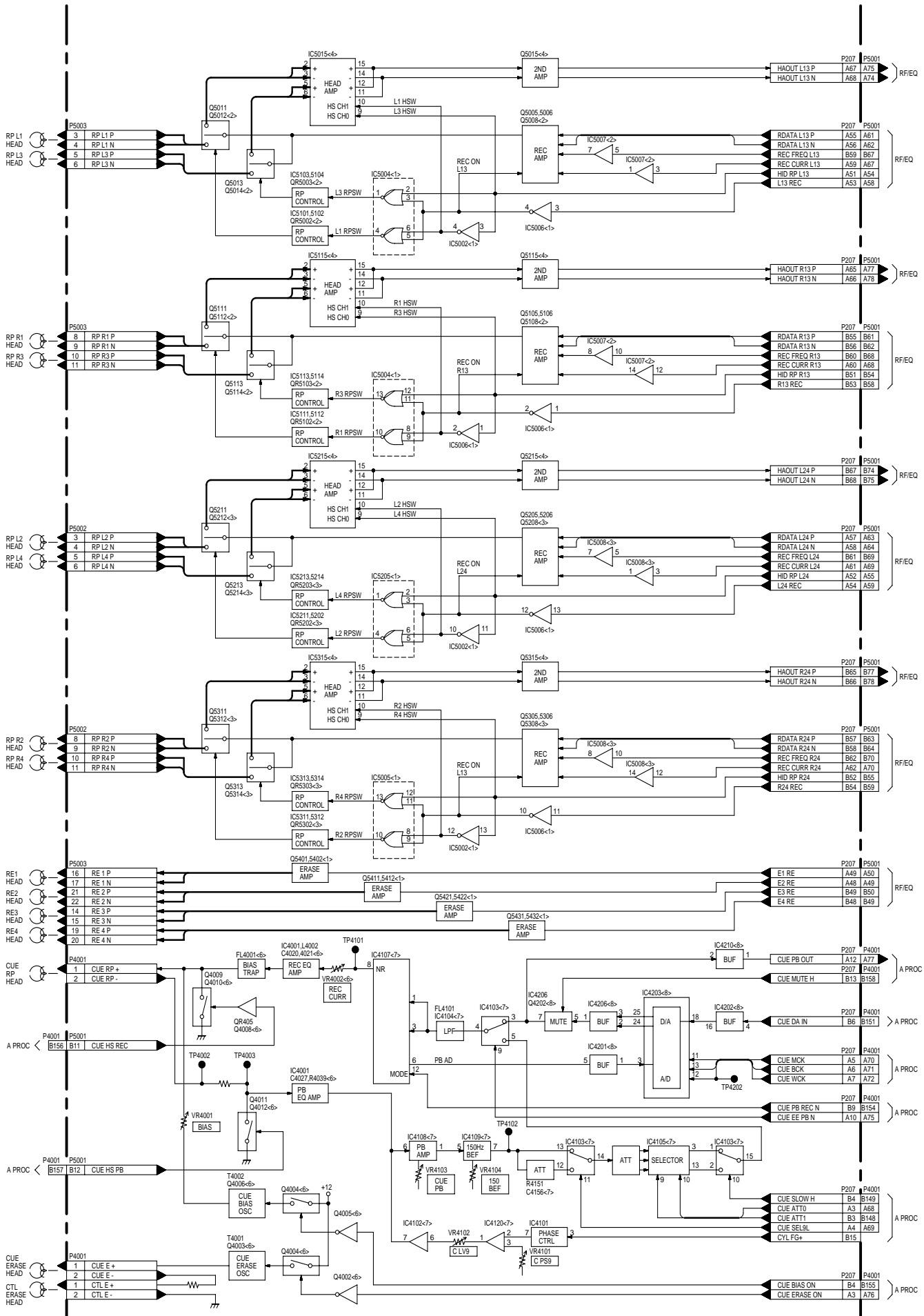
HD SDI BLOCK DIAGRAM



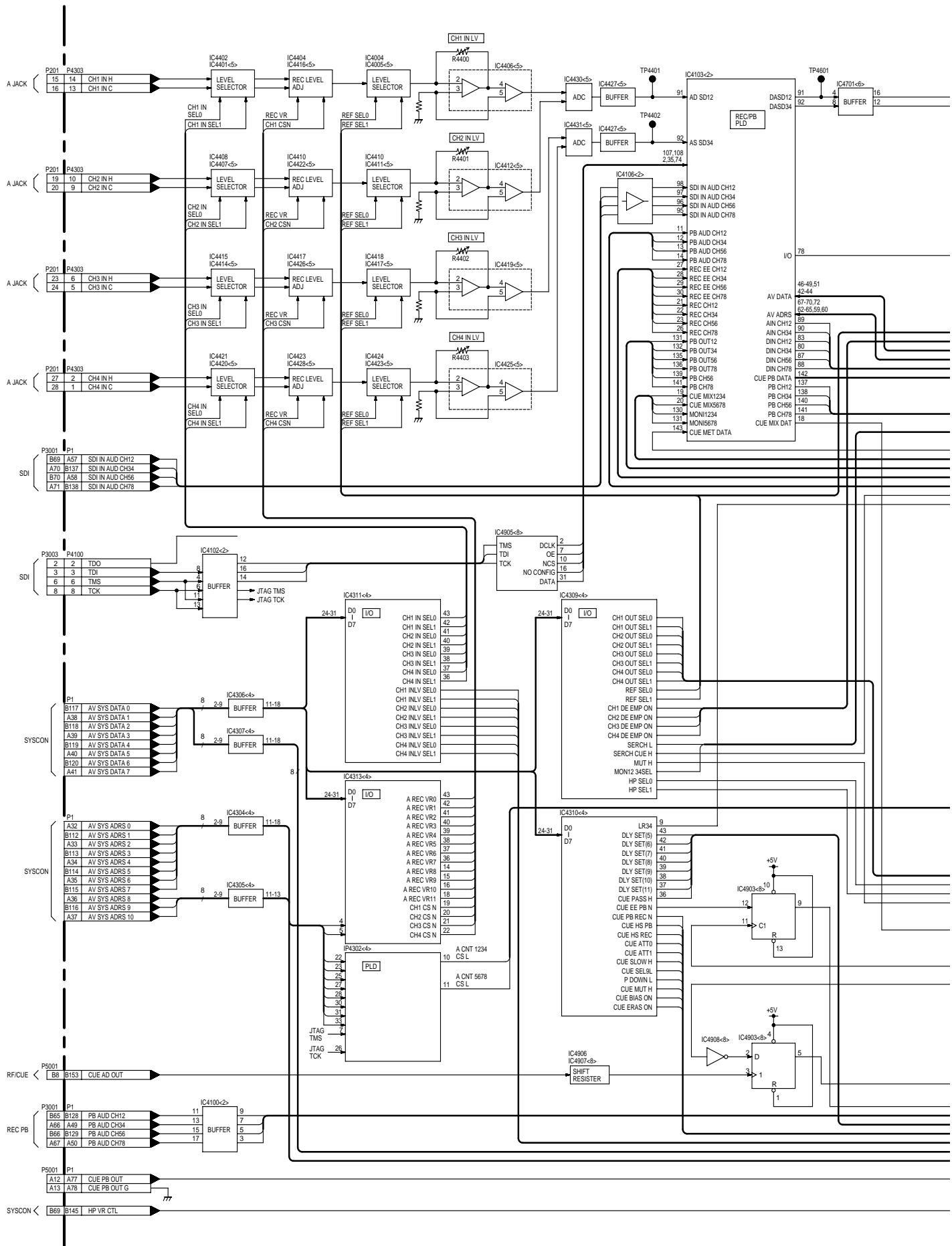
HD SDI BLOCK DIAGRAM



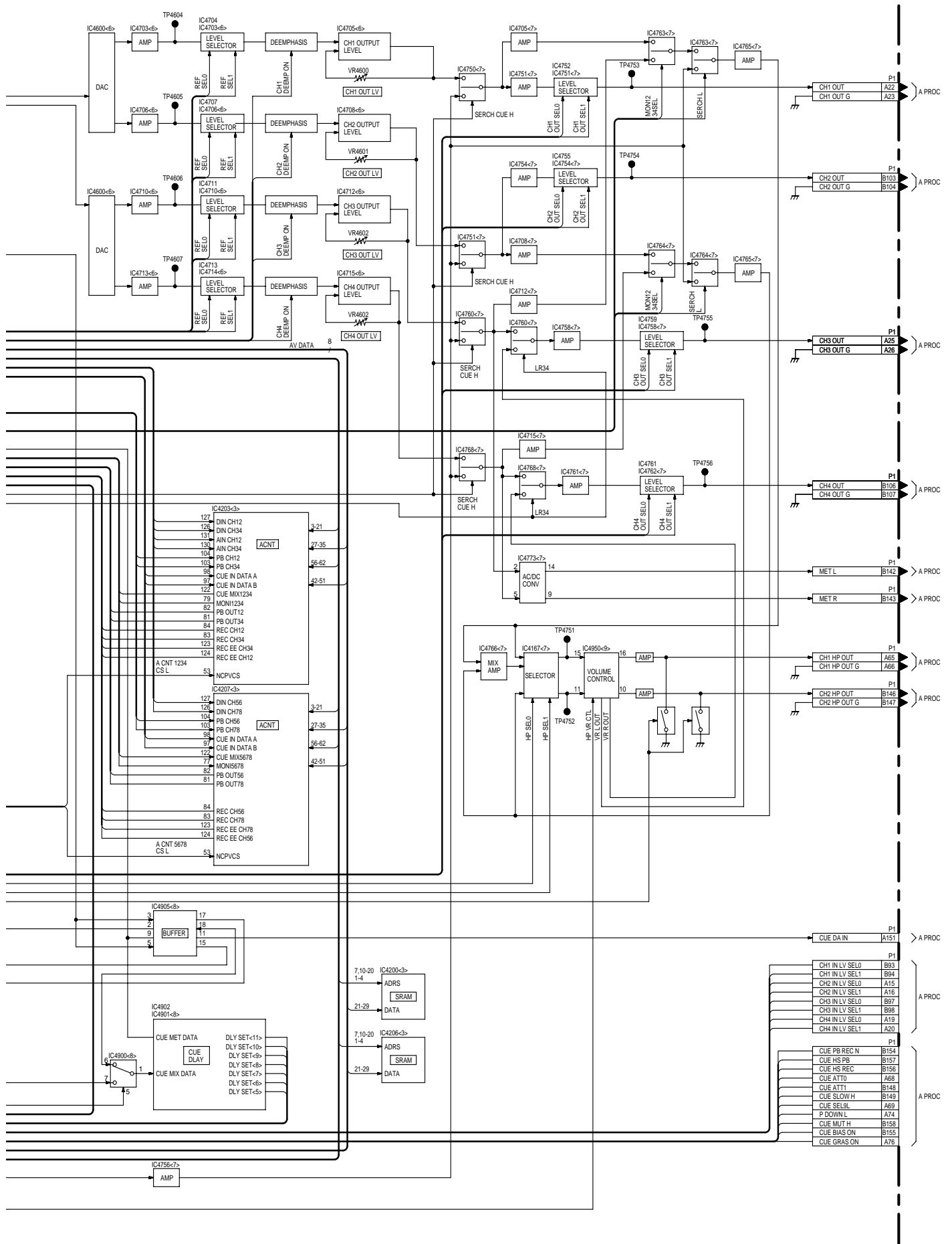
RF/CUE BLOCK DIAGRAM



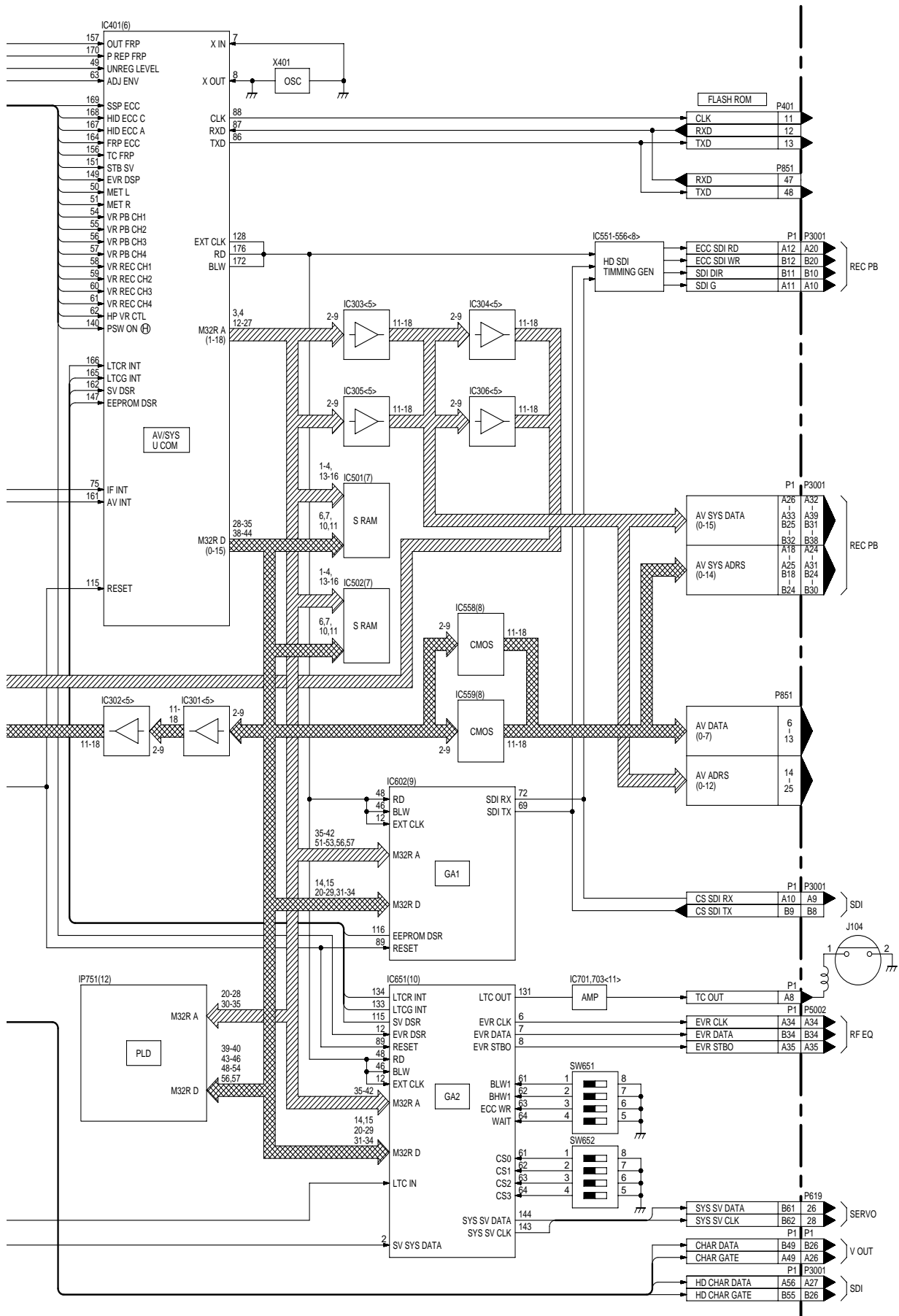
AUDIO BLOCK DIAGRAM



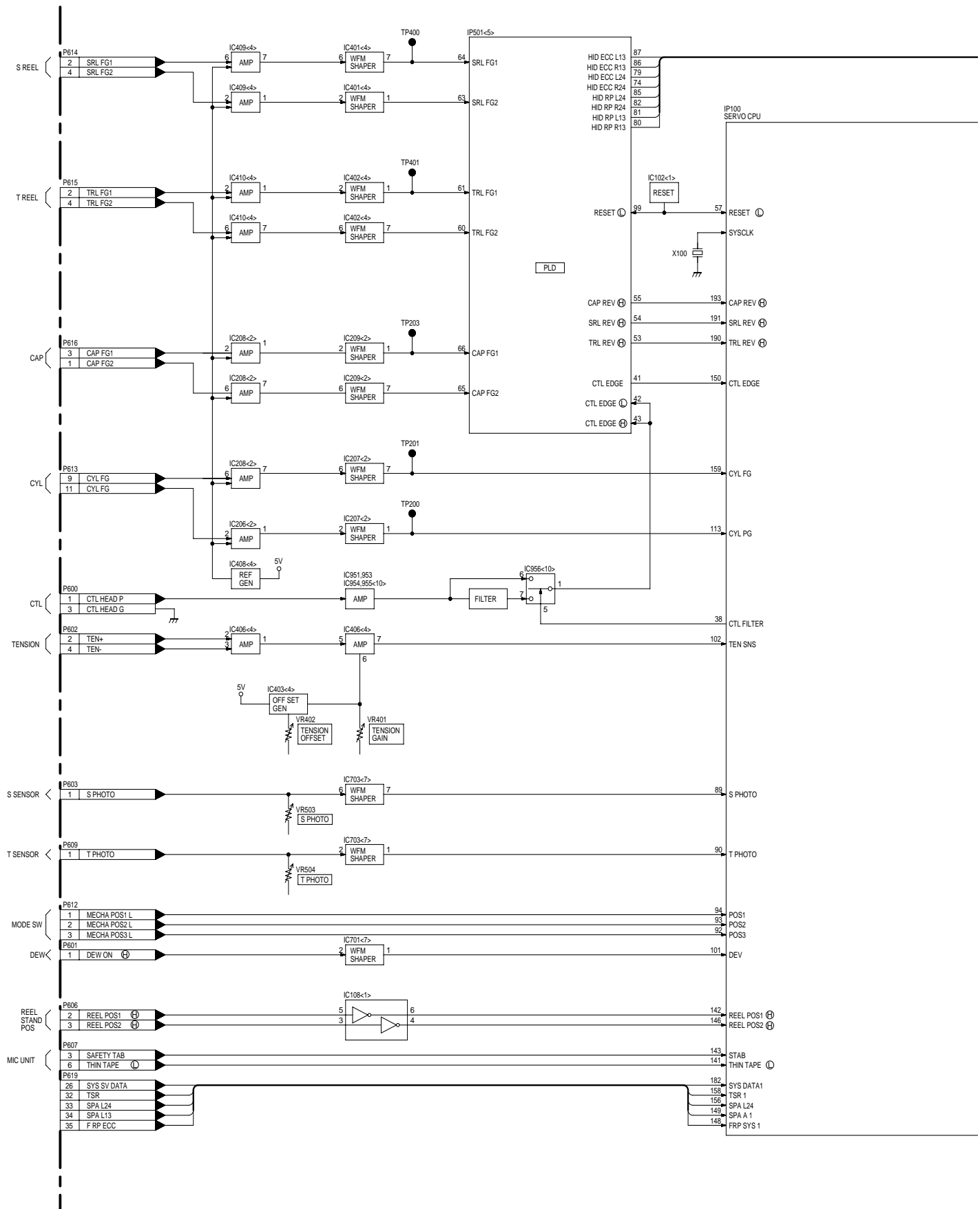
AUDIO BLOCK DIAGRAM



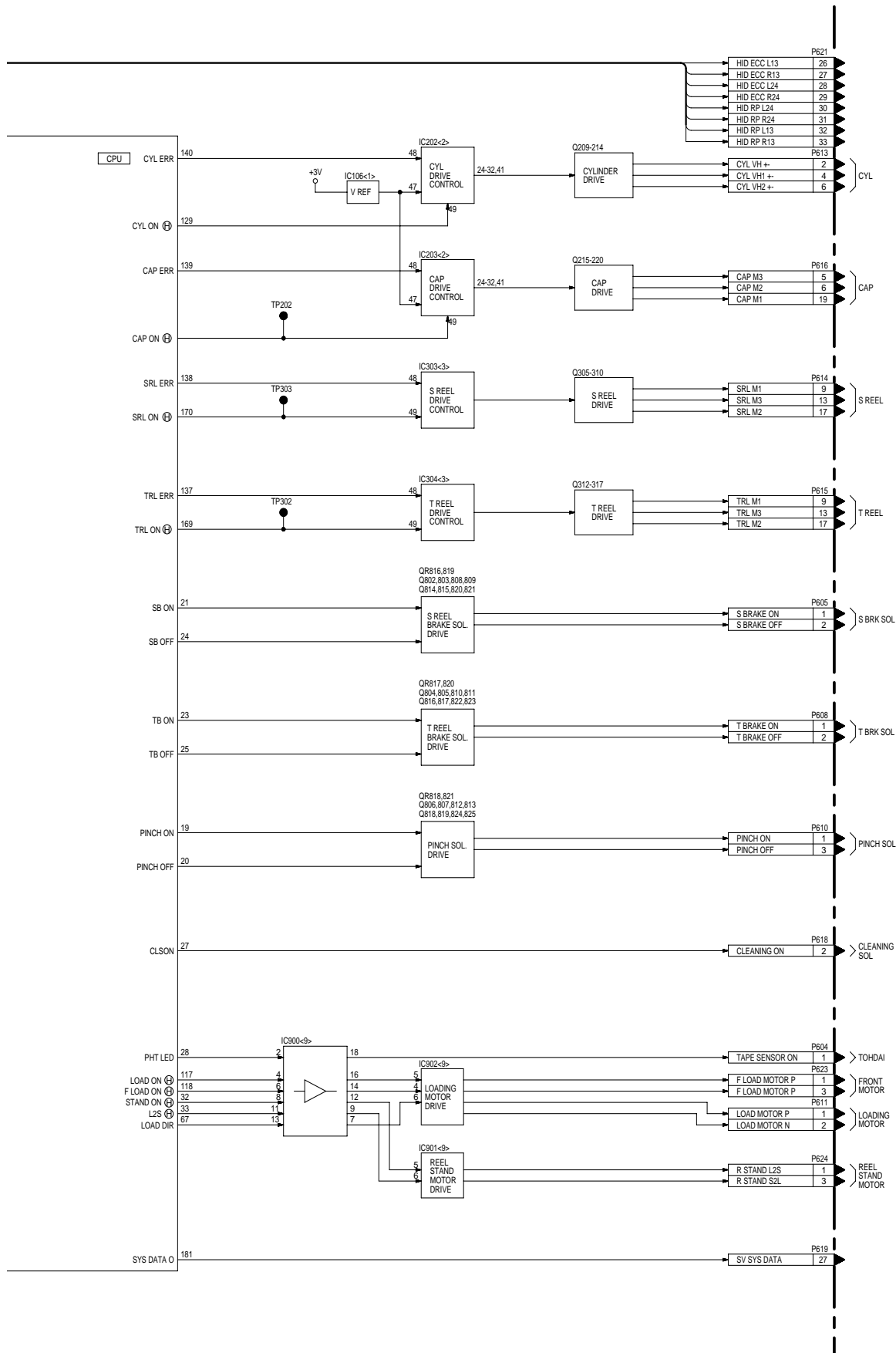
SYSCON BLOCK DIAGRAM



SERVO BLOCK DIAGRAM

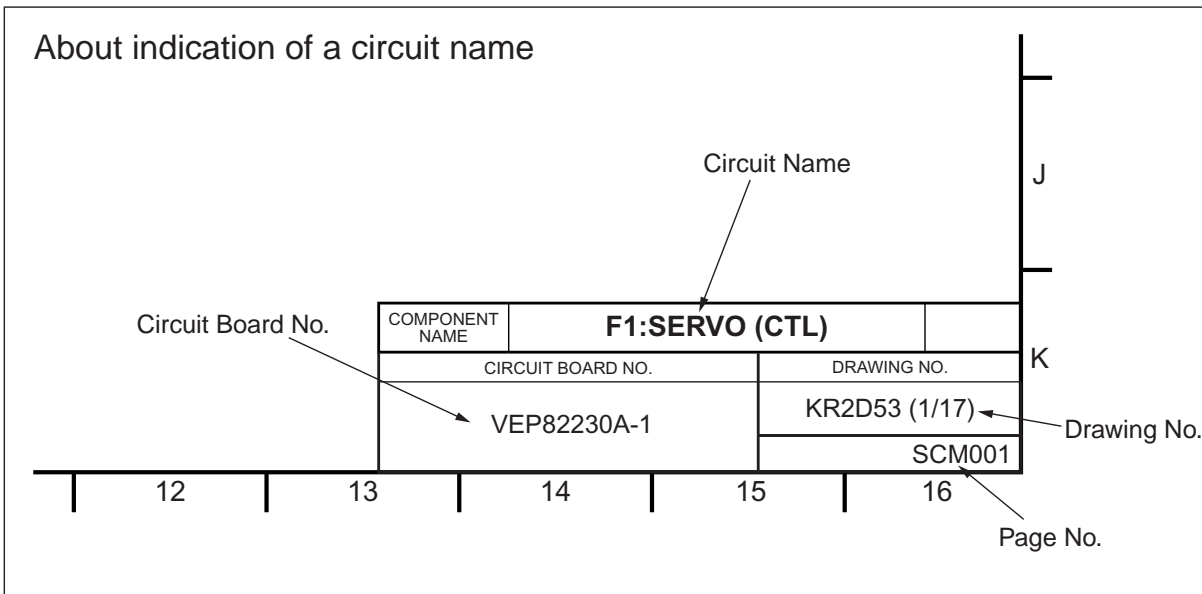


SERVO BLOCK DIAGRAM



SECTION 7

SCHEMATIC DIAGRAMS




NOTE:

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION9

CAUTION

THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

REC/PB

MOTHER (1/12)	SCM1
POWER (2/12)	SCM2
I/O BUFFER (3/12)	SCM3
V/A I/O BUFFER (4/12)	SCM4
PREP100 (5/12)	SCM5
COMP100_AB (6/12)	SCM6
COMP100_CD (7/12)	SCM7
ECC100 (8/12)	SCM8
RF CTRL (9/12)	SCM9
ECC CTRL (10/12)	SCM10
PREP50 (11/12)	SCM11
SHUF_MEM (12/12)	SCM12

V OUT

CONNECTOR (1/10)	SCM13
SYNC_SEP (2/10)	SCM14
SD_REF (3/10)	SCM15
HD_PLL (4/10)	SCM16
SD_PLL (5/10)	SCM17
SGEN (6/10)	SCM18
DATA_IN (7/10)	SCM19
SYS_IF (8/10)	SCM20
ENC (9/10)	SCM21
DATA_OUT (10/10)	SCM22

DOWN CONV

CONNECTOR (1/6)	SCM23
I/O_BUFF (2/6)	SCM24
IO_PROC (3/6)	SCM25
UFC_ASIC (4/6)	SCM26
SDRAM (5/6)	SCM27
DATA_OUT (6/6)	SCM28

HD_SDI_RX

EQ (1/3)	SCM29
CKR,S/P (2/3)	SCM30
DEC (3/3)	SCM31

HD_SDI_TX

ENC (1/2)	SCM32
P/S.DRV (2/2)	SCM33

SDI

MOTHER (1/19)	SCM34
POWER (2/19)	SCM35
I/O BUFFER (3/19)	SCM36
HD_SDI RX (4/19)	SCM37
ROUNDING (5/19)	SCM38
EE FIFO (6/19)	SCM39
VDLY_Y FIFO (7/19)	SCM40
VDLY_C FIFO (8/19)	SCM41
EE OUT BUFFER (9/19)	SCM42
V/A I/O BUFFER (10/19)	SCM43
DLY_Y CTRL (11/19)	SCM44
DLY_Y SDRAM (12/19)	SCM45
DLY_C CTRL (13/19)	SCM46
DLY_C SDRAM (14/19)	SCM47
MUX (15/19)	SCM48
HD_SDI_TX(16/19)	SCM49
AV/SYS I/F (17/19)	SCM50
SD_SDI CTRL (18/19)	SCM51
SD_SDI TX (19/19)	SCM52

RF/EQ

RF/EQ (1/11)	SCM53
RF/EQ (2/11)	SCM54
RF/EQ (3/11)	SCM55
RF/EQ (4/11)	SCM56
RF/EQ (5/11)	SCM57
RF/EQ (6/11)	SCM58
RF/EQ (7/11)	SCM59

RF/EQ (8/11)	SCM60
RF/EQ (9/11)	SCM61
RF/EQ (10/11)	SCM62
RF/EQ (11/11)	SCM63

RF/CUE

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RF/CUE (2/9)	SCM65
RF/CUE (3/9)	SCM66
RF/CUE (4/9)	SCM67
RF/CUE (5/9)	SCM68
RF/CUE (6/9)	SCM69
RF/CUE (7/9)	SCM70
RF/CUE (8/9)	SCM71
RF/CUE (9/9)	SCM72

A PROC

APROC_CONNECTOR (1/9)	SCM73
APROC_IO (2/9)	SCM74
APROC_CNT (3/9)	SCM75
APROC_AVSYS (4/9)	SCM76
APROC_AUDIO_INPUT_AD (5/9)	SCM77
APROC_AUDIO_DA(6/9)	SCM78
APROC_AUDIO_OUTPUT (7/9)	SCM79
APROC_AUDIO_CUE_DLY (8/9)	SCM80
APROC_AUDIO HP (9/9)	SCM81

A I/O

CONNECT (1/5)	SCM82
OUTPUT12 (2/5)	SCM83
OUTPUT34(3/5)	SCM84
INPUT12(4/5)	SCM85
INPUT34 (5/5)	SCM86

SYSCON

MOTHER_IF (1/13)	SCM87
IF MICON (2/13)	SCM88
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REMOTE/CHARAGEN (4/13)	SCM90
AV_SYS (5/13)	SCM91
AV_SYS (6/13)	SCM92
AV_SYS (7/13)	SCM93
AV_SYS (8/13)	SCM94
AV_SYS (9/13)	SCM95
AV_SYS (10/13)	SCM96
AV_SYS (11/13)	SCM97
AV_SYS (12/13)	SCM98
JIG_IF(13/13)	SCM99

SERVO

SERVO (1/11)	SCM100
SERVO (2/11)	SCM101
SERVO(REEL_DRIVE) (3/11)	SCM102
SERVO(REEL_FG,TENSION) (4/11)	SCM103
SERVO (5/11)	SCM104
SERVO (6/11)	SCM105
SERVO (7/11)	SCM106
SERVO (8/11)	SCM107
SERVO (9/11)	SCM108
SERVO (10/11)	SCM109
SOFT (11/11)	SCM110

POWER1

POWER1 (1/5)	SCM111
POWER1 (2/5)	SCM112

SUB POWER1

SUB POWER1 (1/1)	SCM113
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POWER2

POWER2 (1/4)	SCM114
POWER2 (2/4)	SCM115
POWER2 (3/4)	SCM116
POWER2 (4/4)	SCM117

POWER3

POWER3(1/3).....	SCM118
POWER3 (2/3).....	SCM119
POWER3 (3/3).....	SCM120

POWER CONNECT

POWER CONNECT (1/13).....	SCM121
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MOTHER

MOTHER (1/3).....	SCM122
MOTHER (2/3).....	SCM123
MOTHER (3/3).....	SCM124

FRONT

FRONT(1) (1/2).....	SCM125
FRONT(1) (2/2).....	SCM126

V_JACK

V_JACK (1/2).....	SCM127
V_JACK (2/2).....	SCM128

A_JACK

A_JACK (1/1).....	SCM129
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KEY

KEY (1/1)	SCM130
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REC VR

REC VR (1/1).....	SCM131
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PB VR

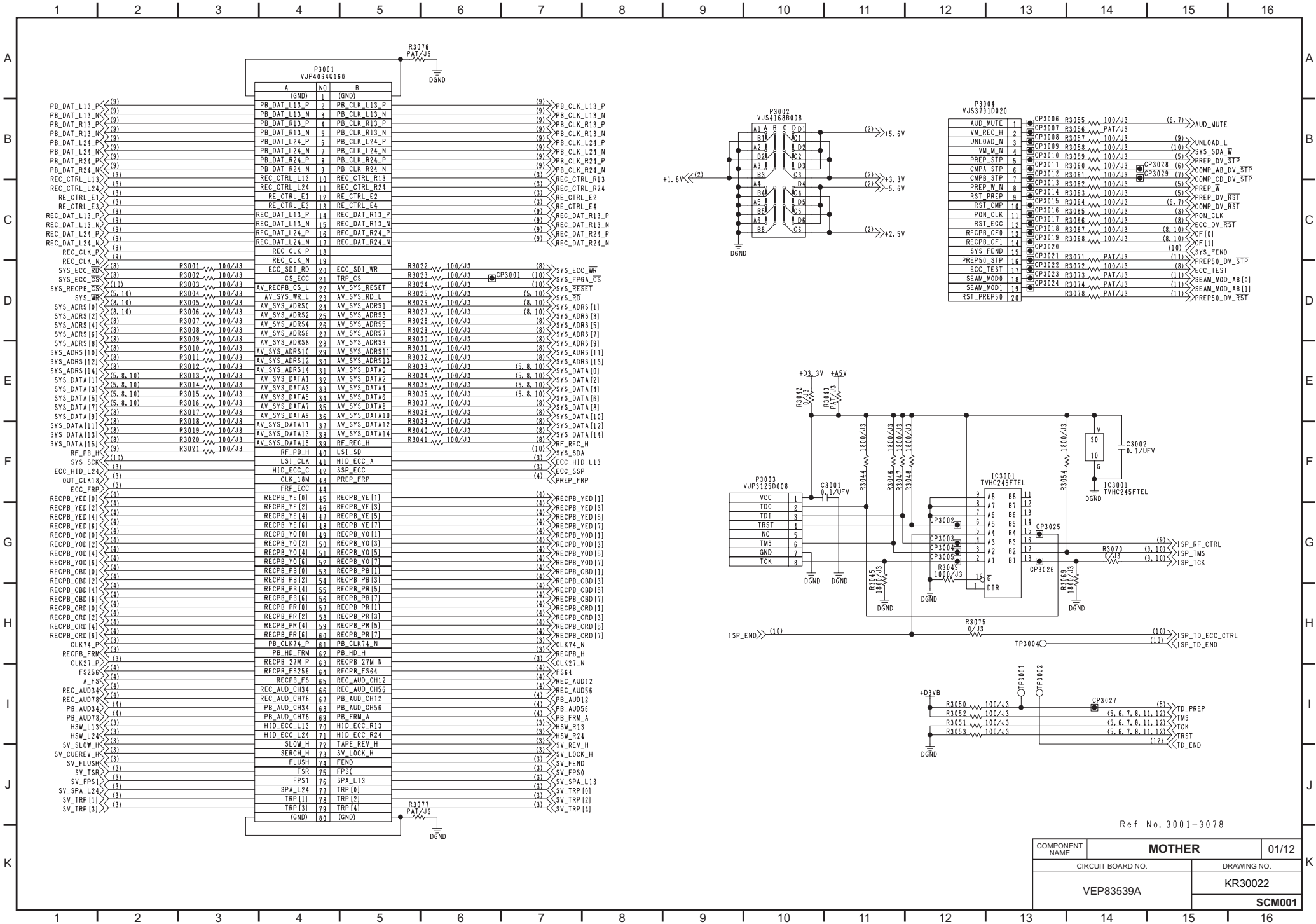
PB VR (1/1).....	SCM132
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FRONT CONNECT

FRONT CONNECT (1/1)	SCM133
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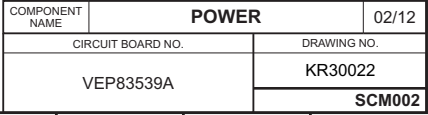
CARRIGE

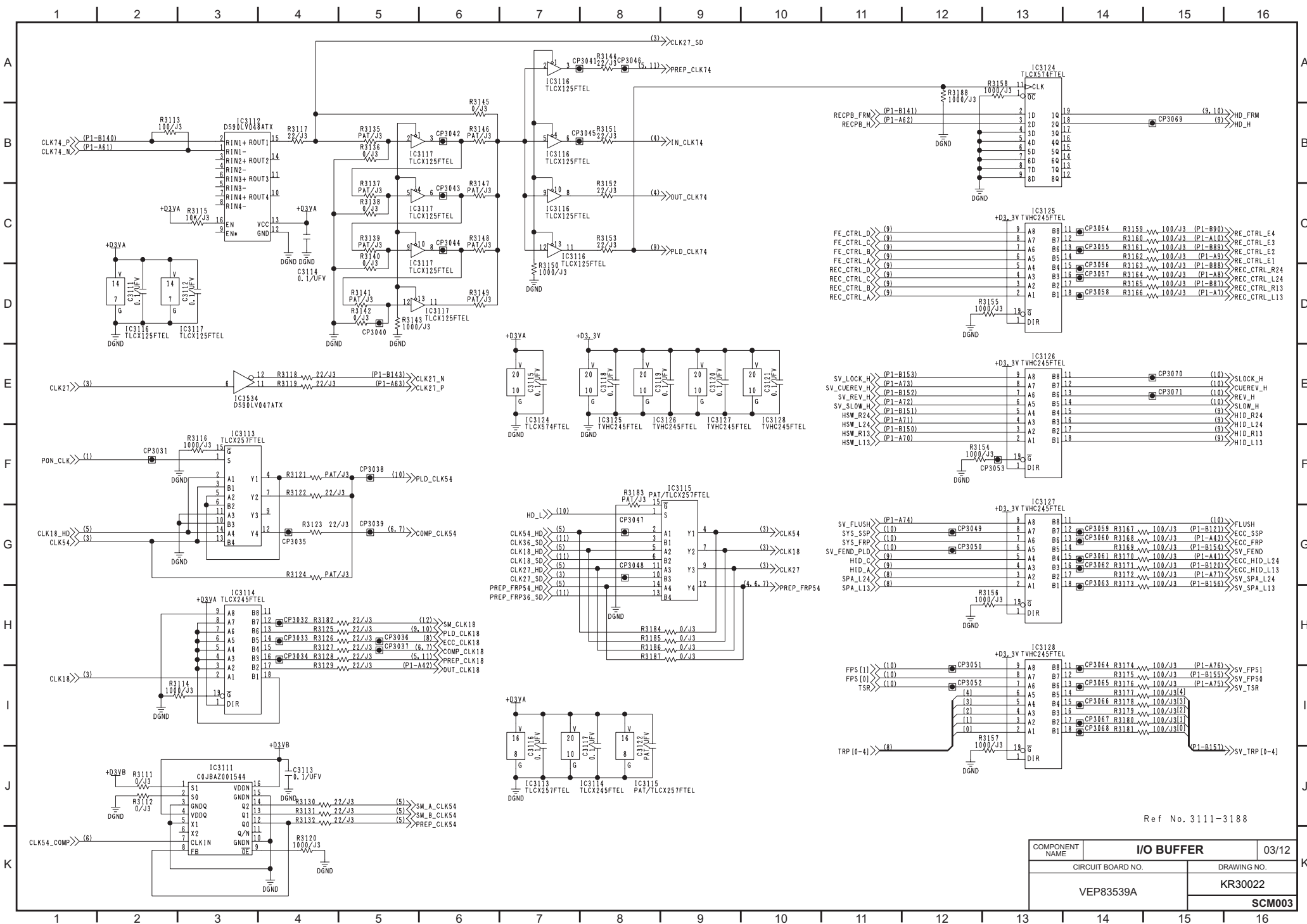
CARRIGE (1/1).....	SCM134
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Ref No. 3001-3078

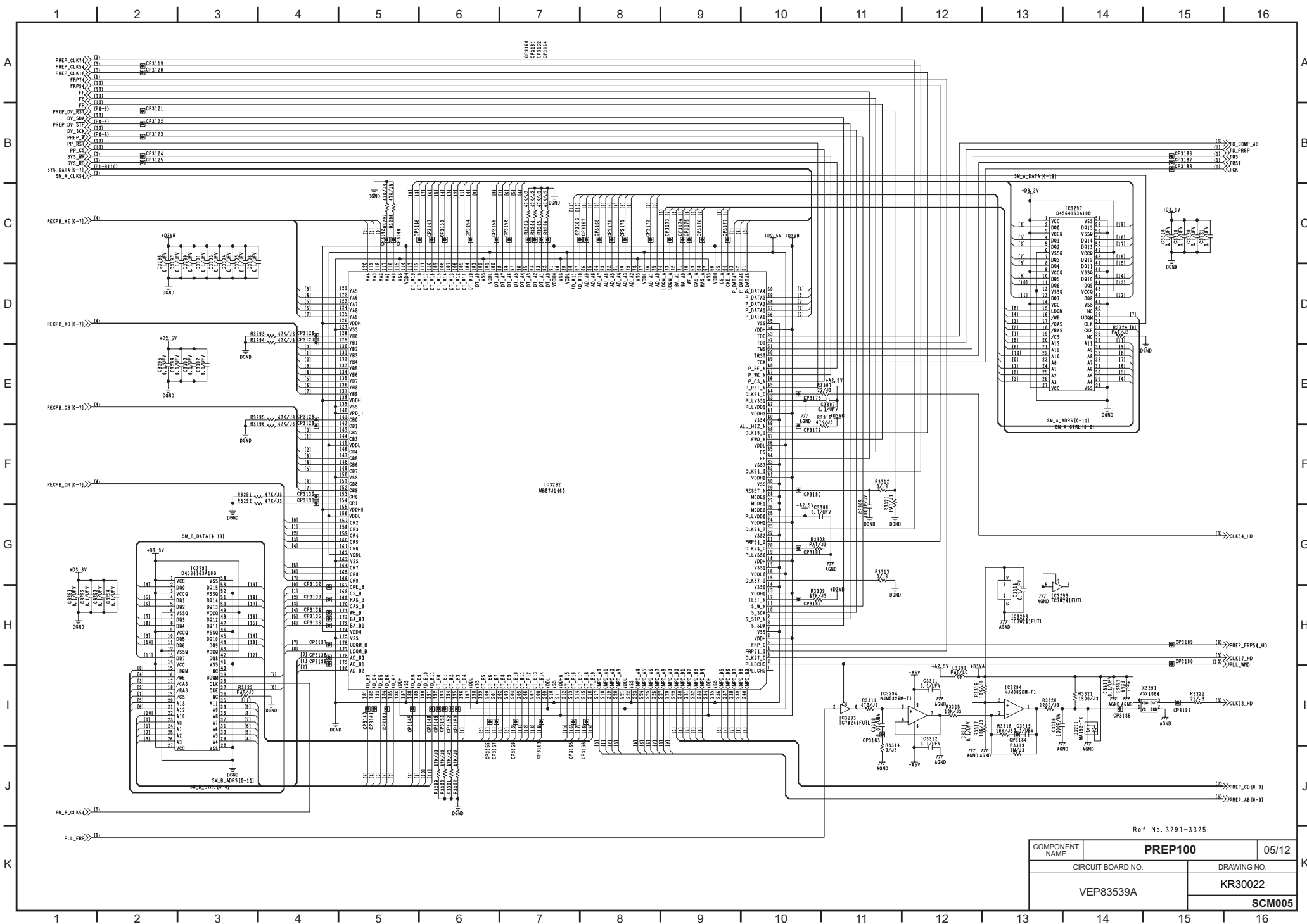
COMPONENT NAME		MOTHER	01/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83539A		KR30022	
		SCM001	

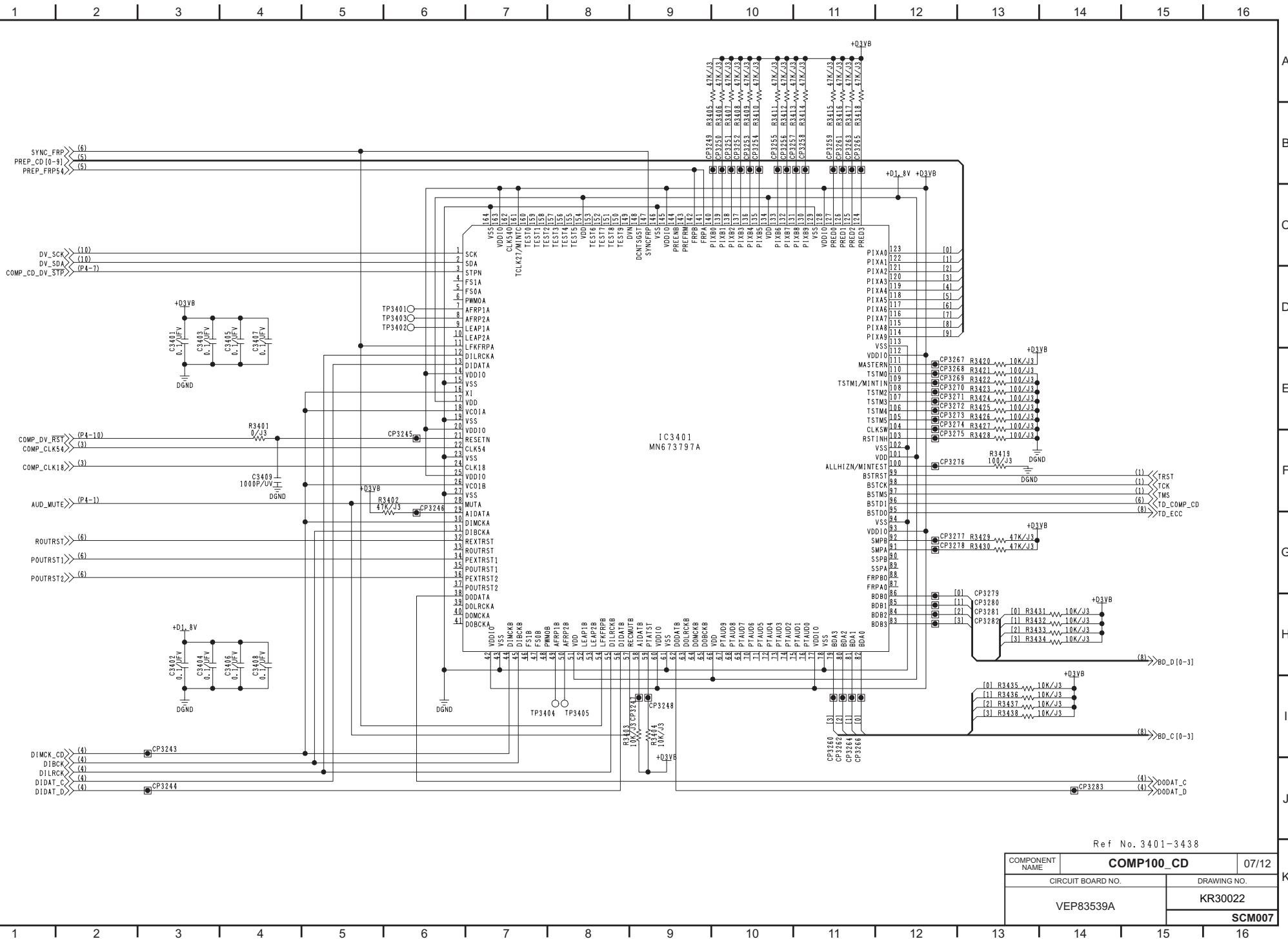




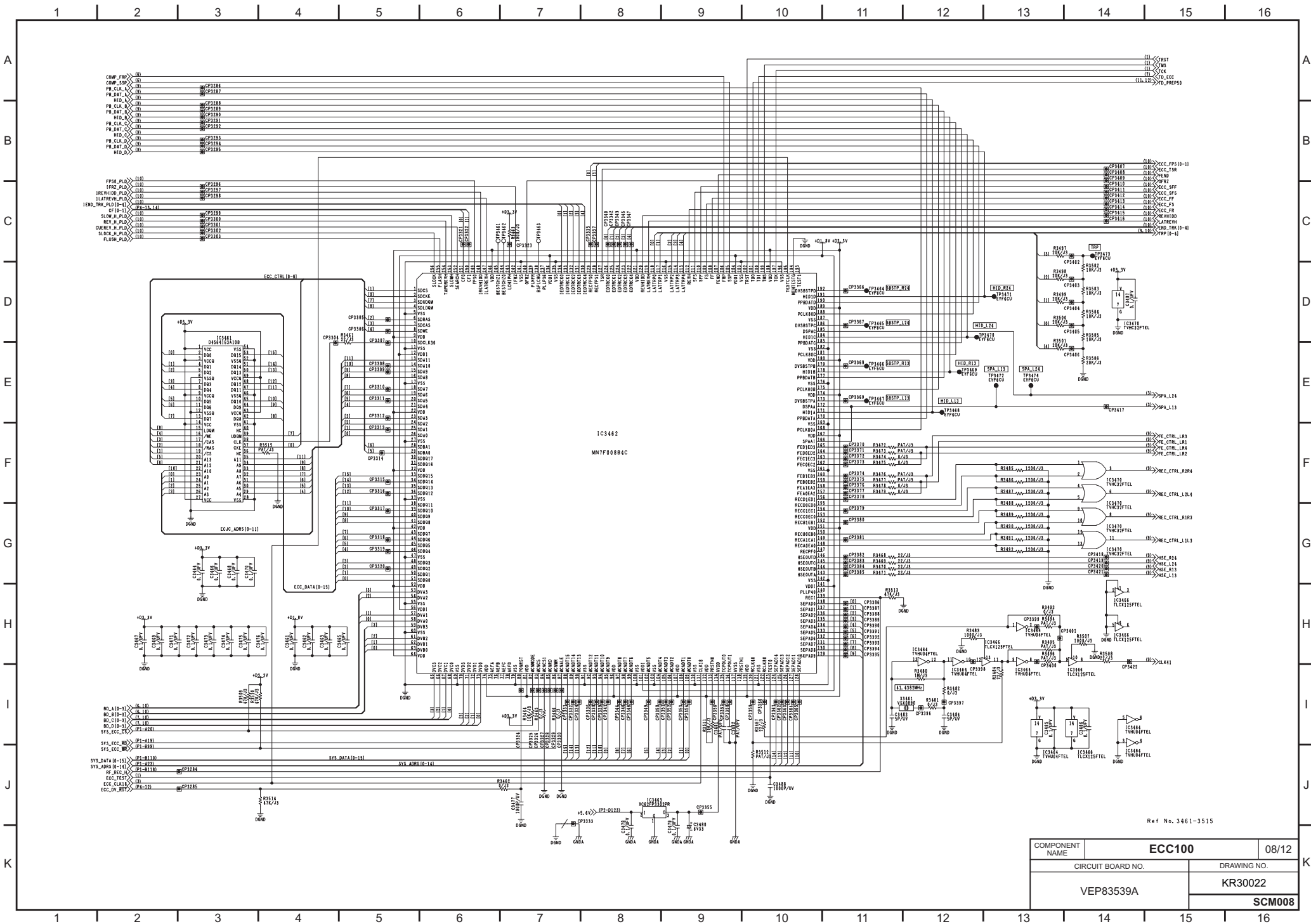
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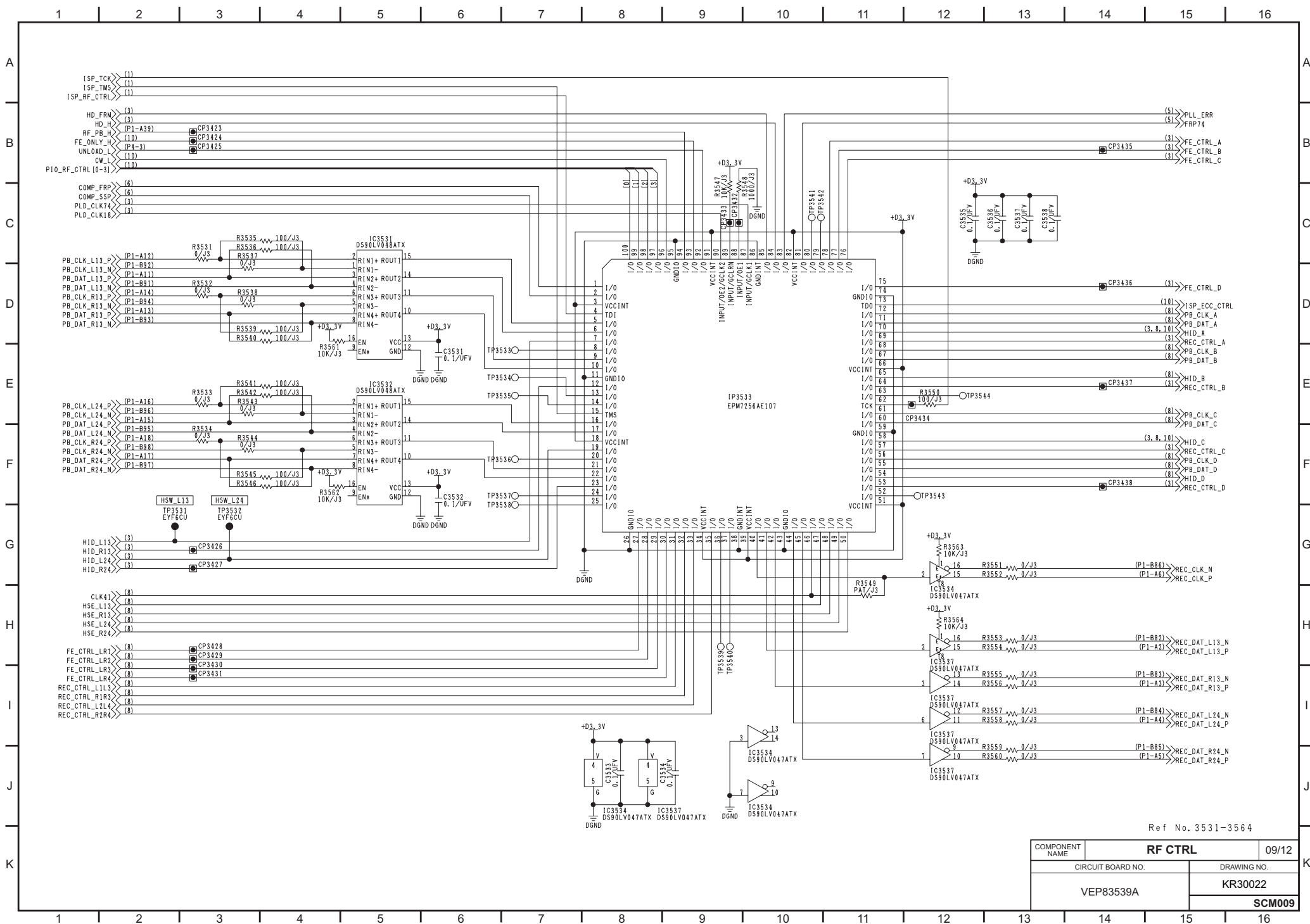
COMPONENT NAME	I/O BUFFER	03/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83539A	KR30022	
	SCM003	

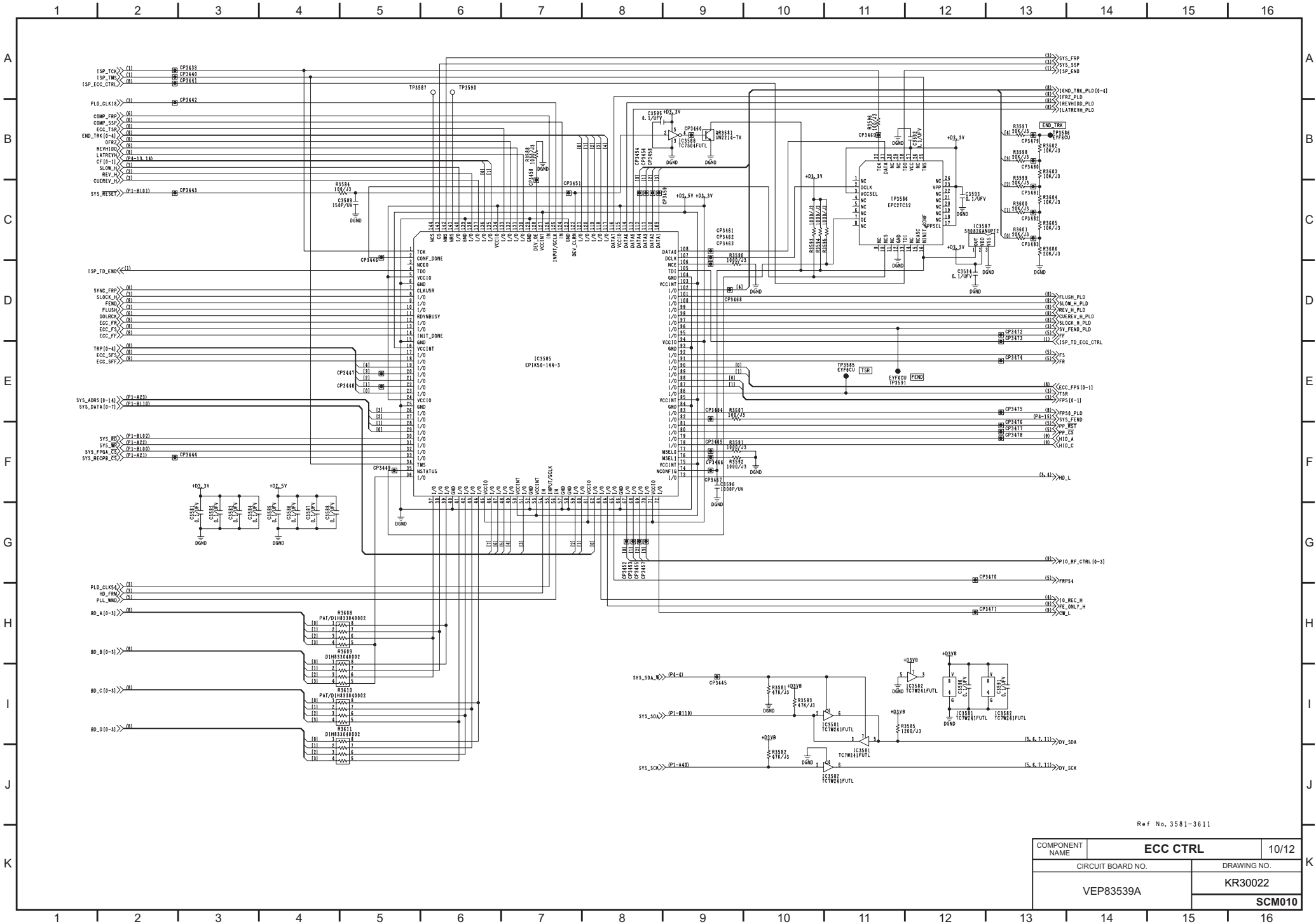




COMPONENT NAME	COMP100_CD		07/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83539A		KR30022	
		SCM007	

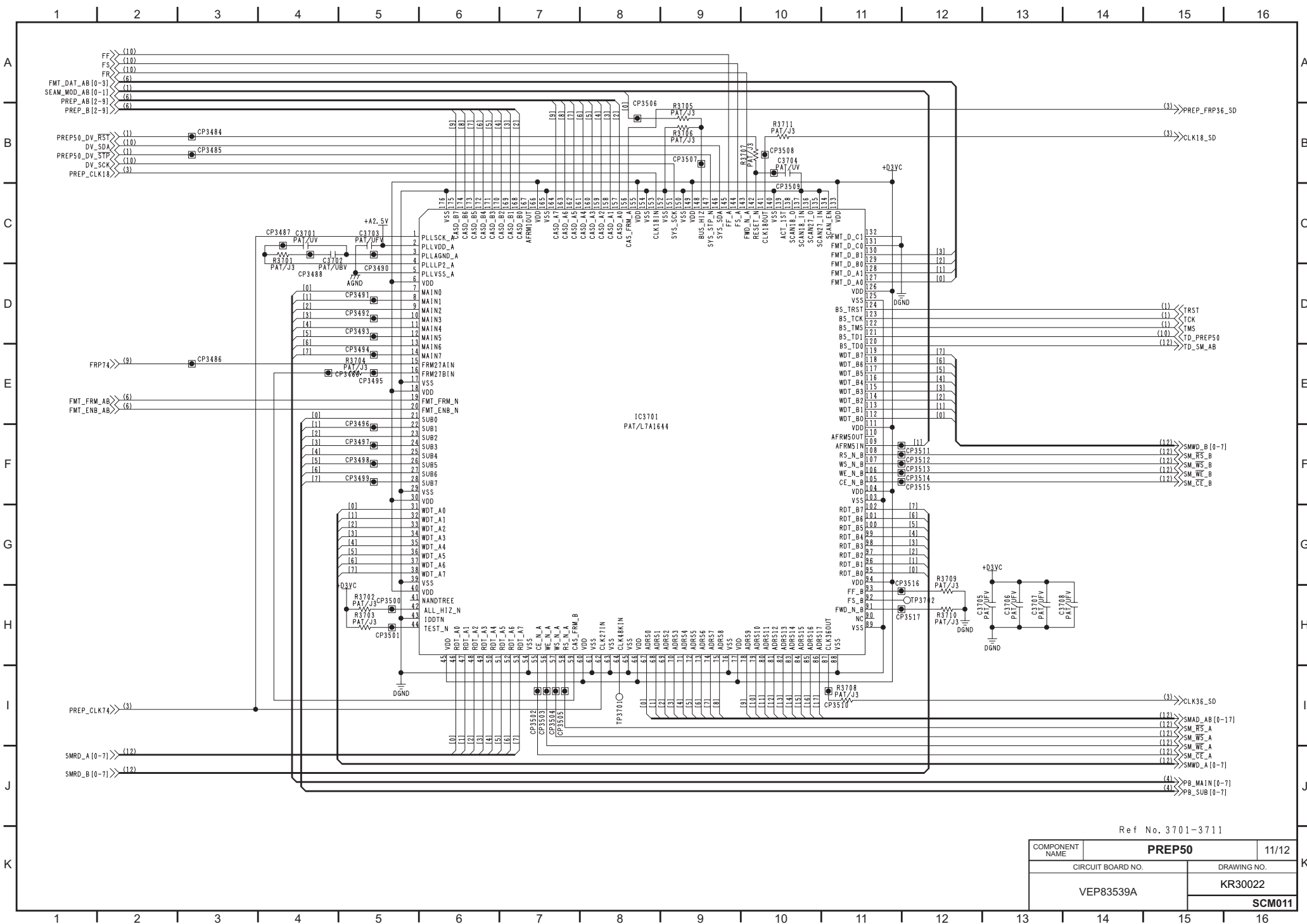


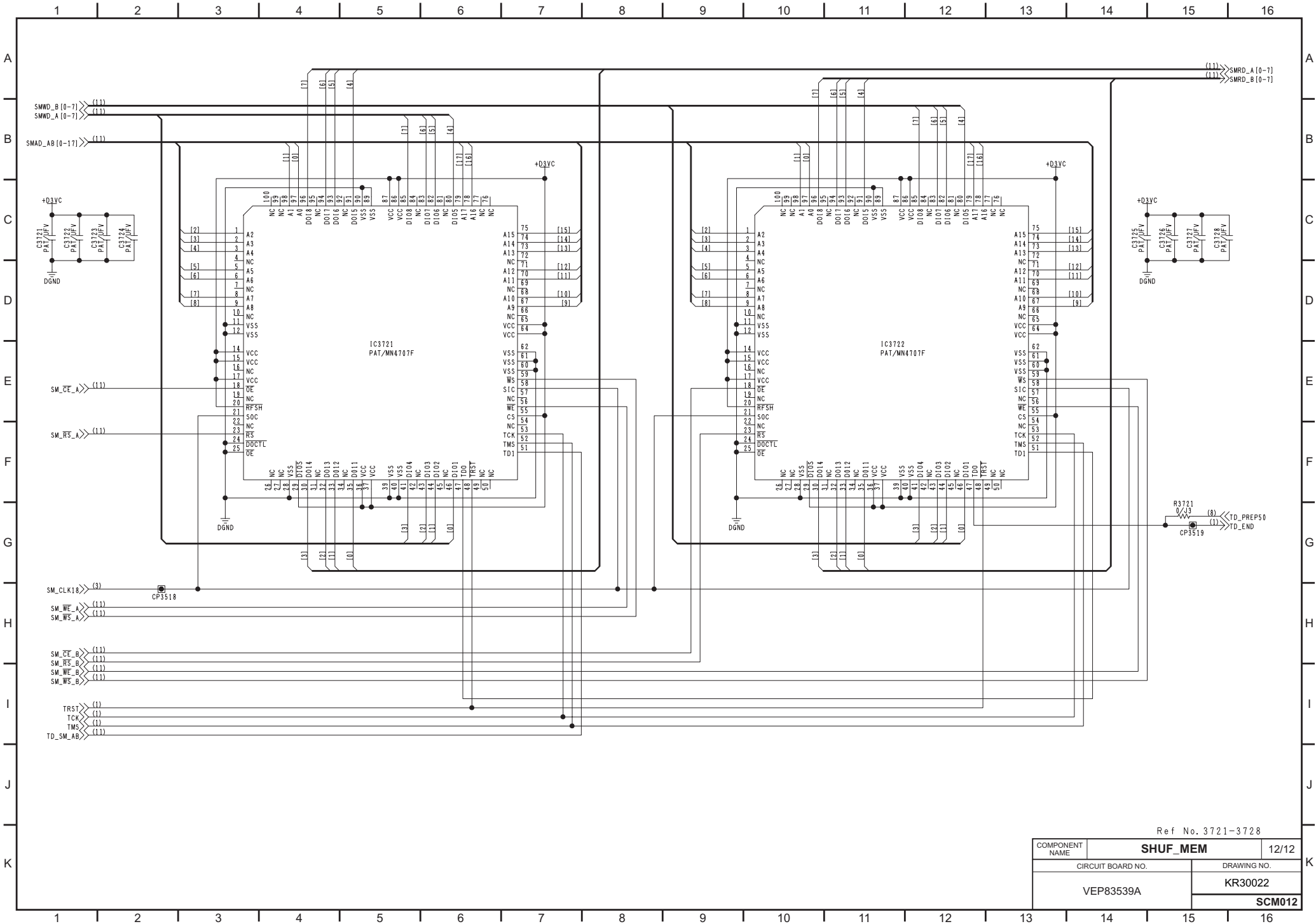




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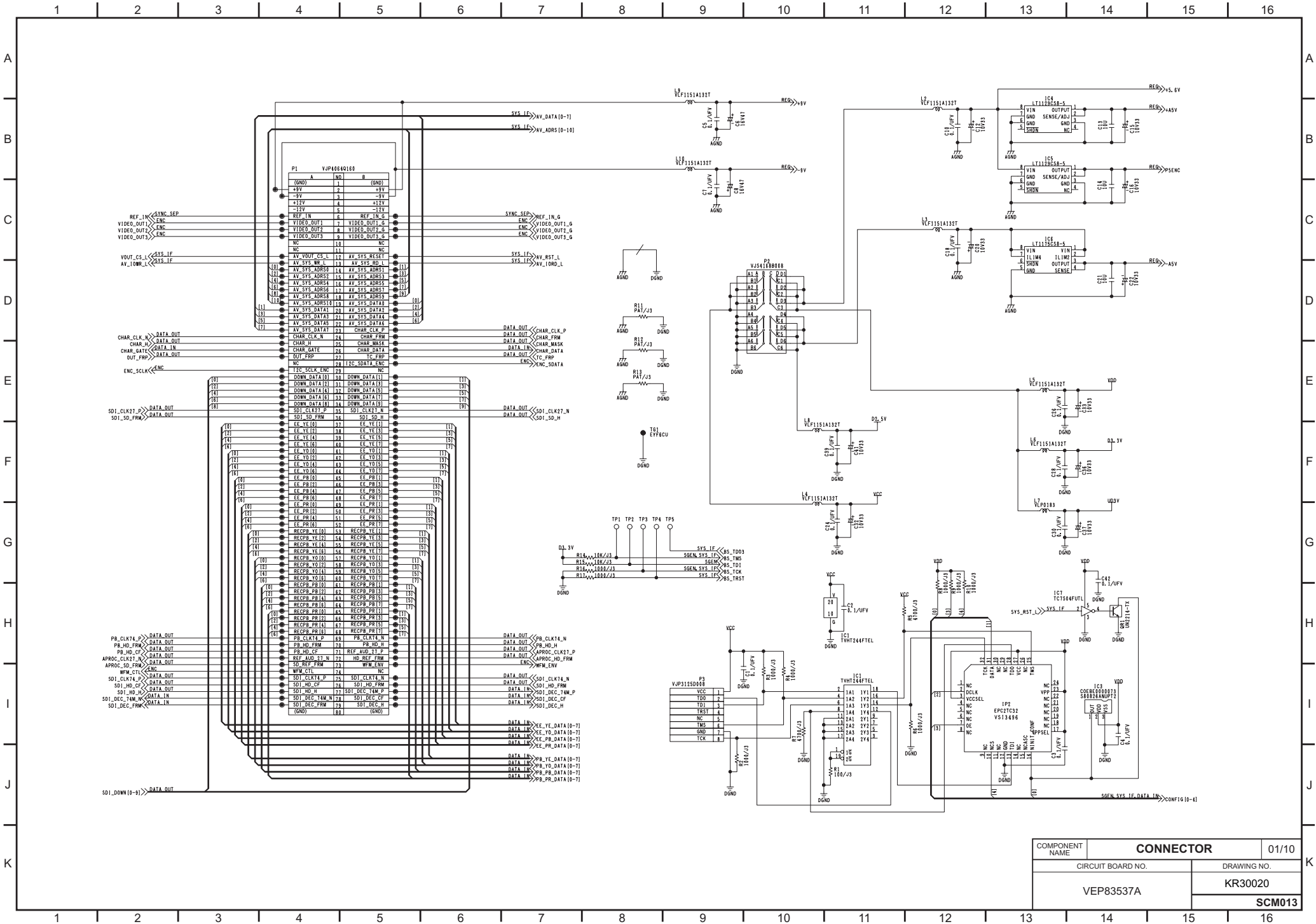
COMPONENT NAME	ECC CTRL		10/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83539A		KR30022	
		SCM010	



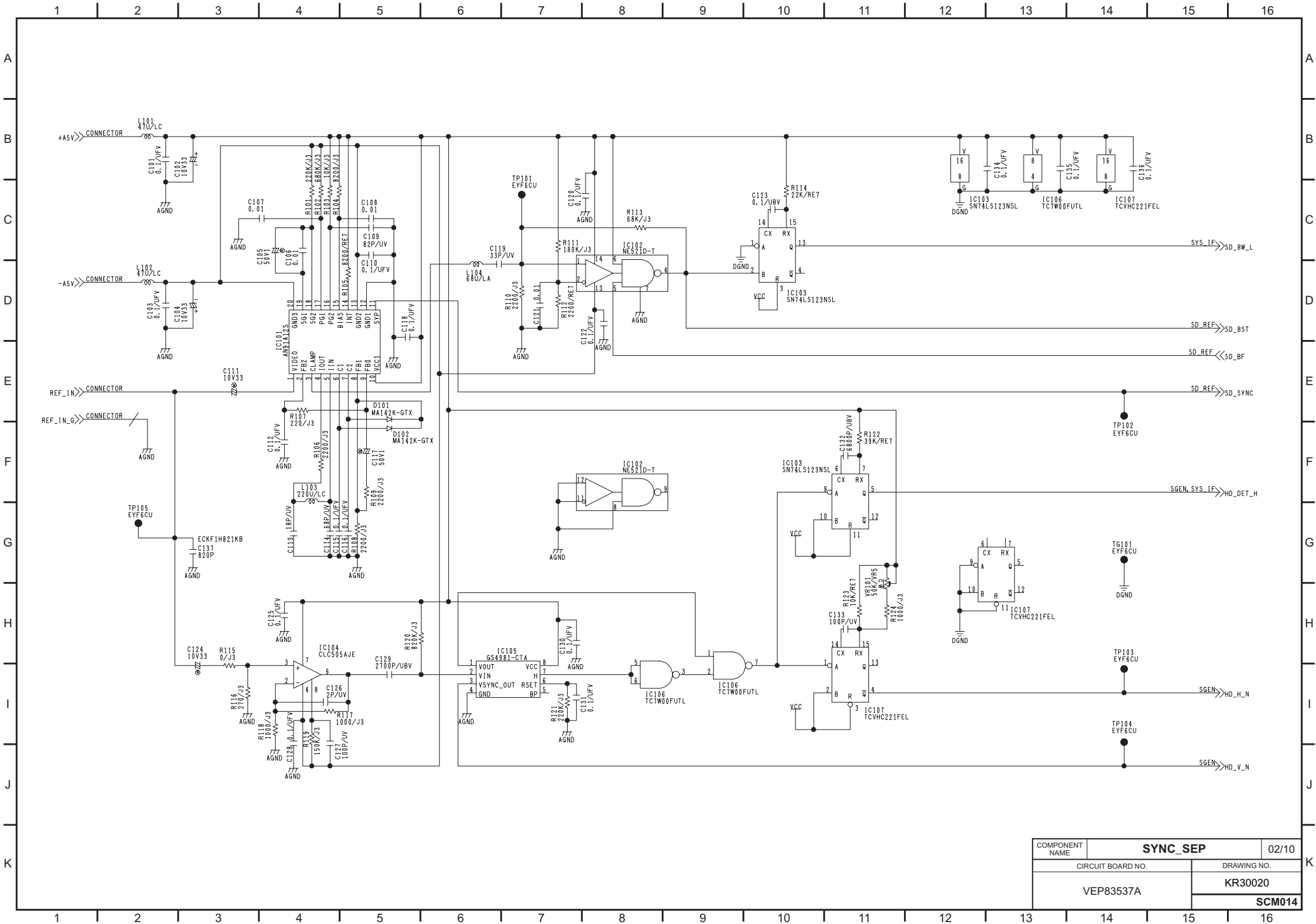


Ref No. 3721-3728

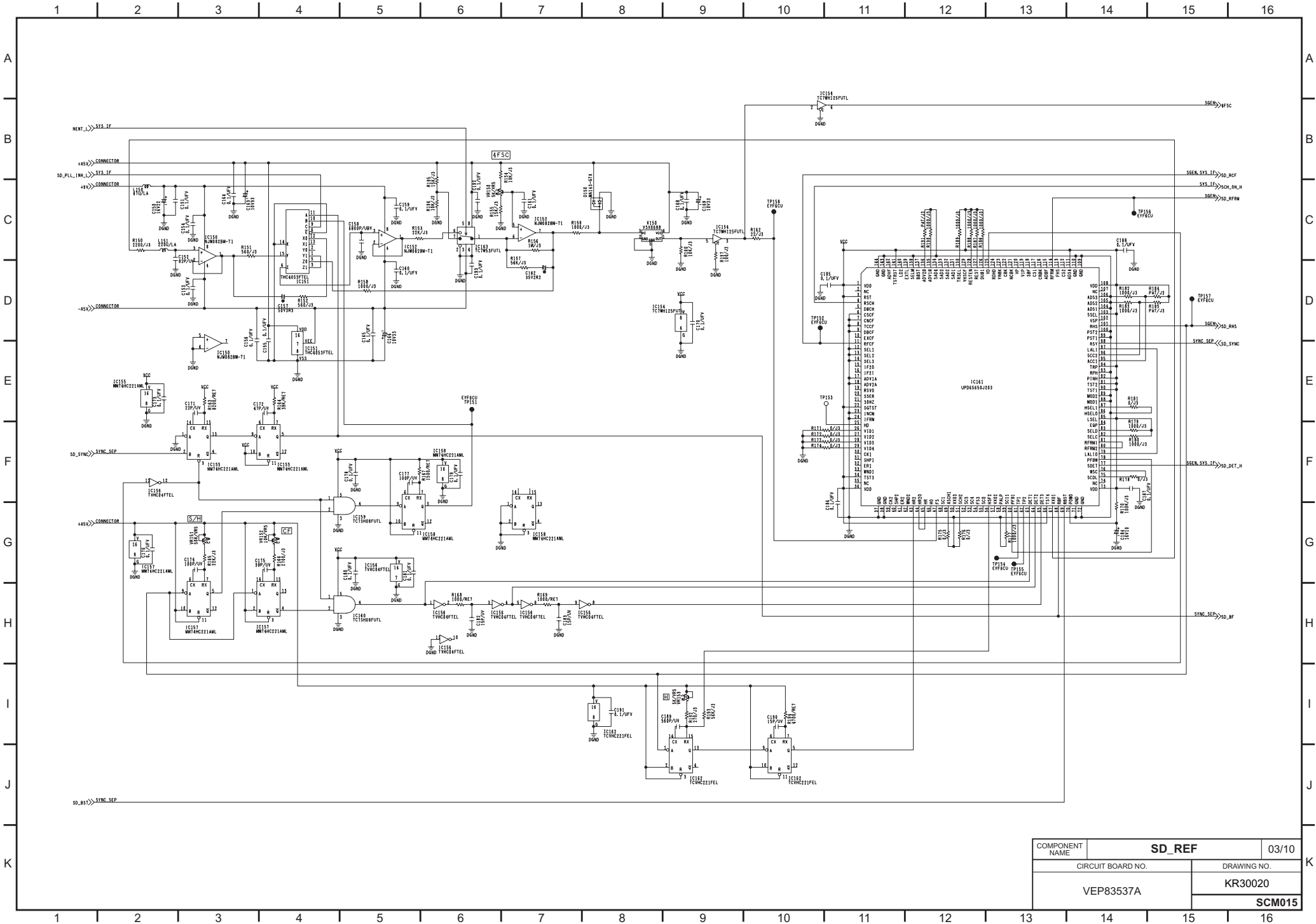
COMPONENT NAME	SHUF_MEM	12/12
CIRCUIT BOARD NO.	VEP83539A	DRAWING NO.
		KR30022
		SCM012

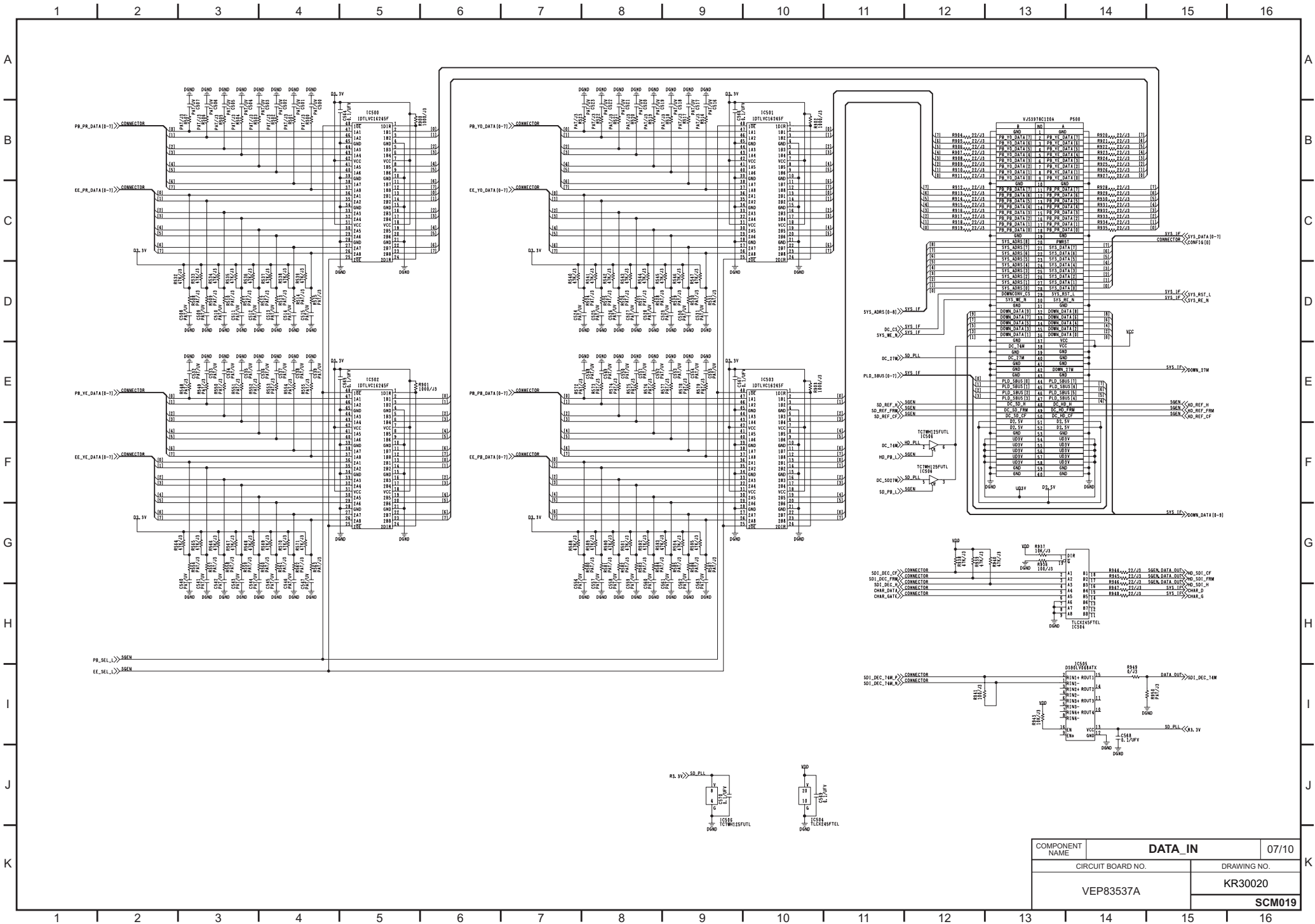


COMPONENT NAME	CONNECTOR		01/10
	CIRCUIT BOARD NO.		DRAWING NO.
VEP83537A		KR30020	
		SCM013	

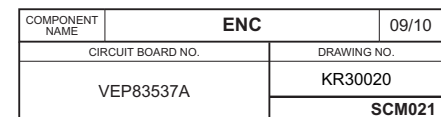


COMPONENT NAME	SYNC_SEP		02/10
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83537A		KR30020	
		SCM014	



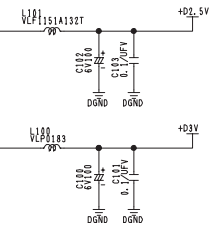
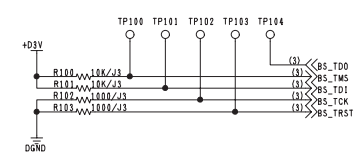
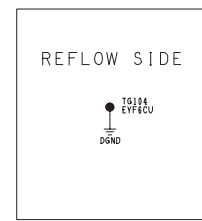
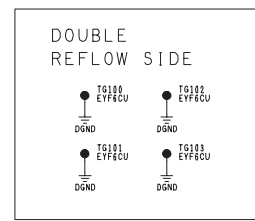
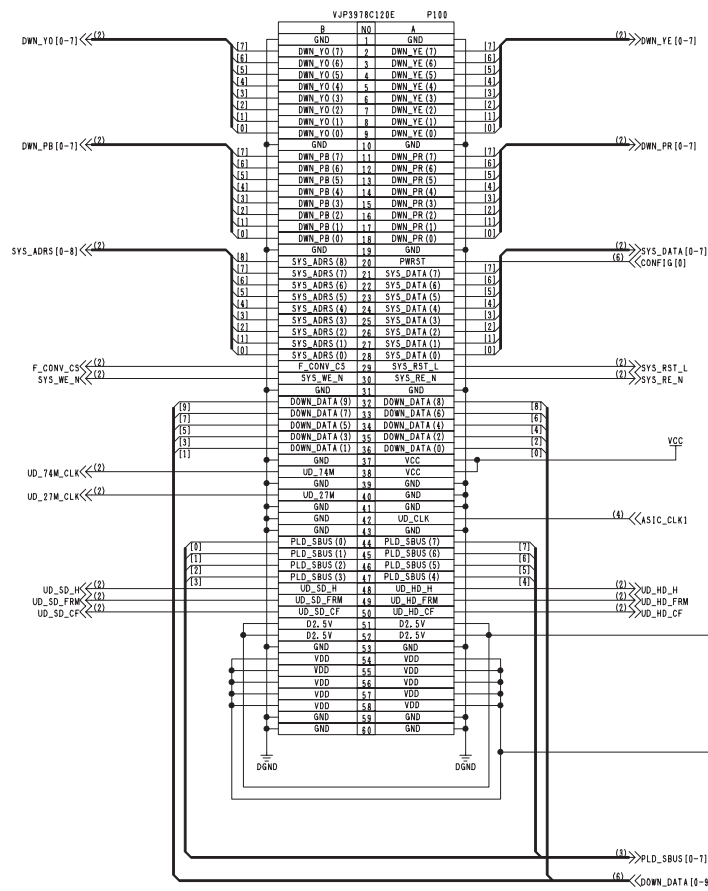


COMPONENT NAME	DATA IN	07/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83537A	KR30020	
	SCM019	



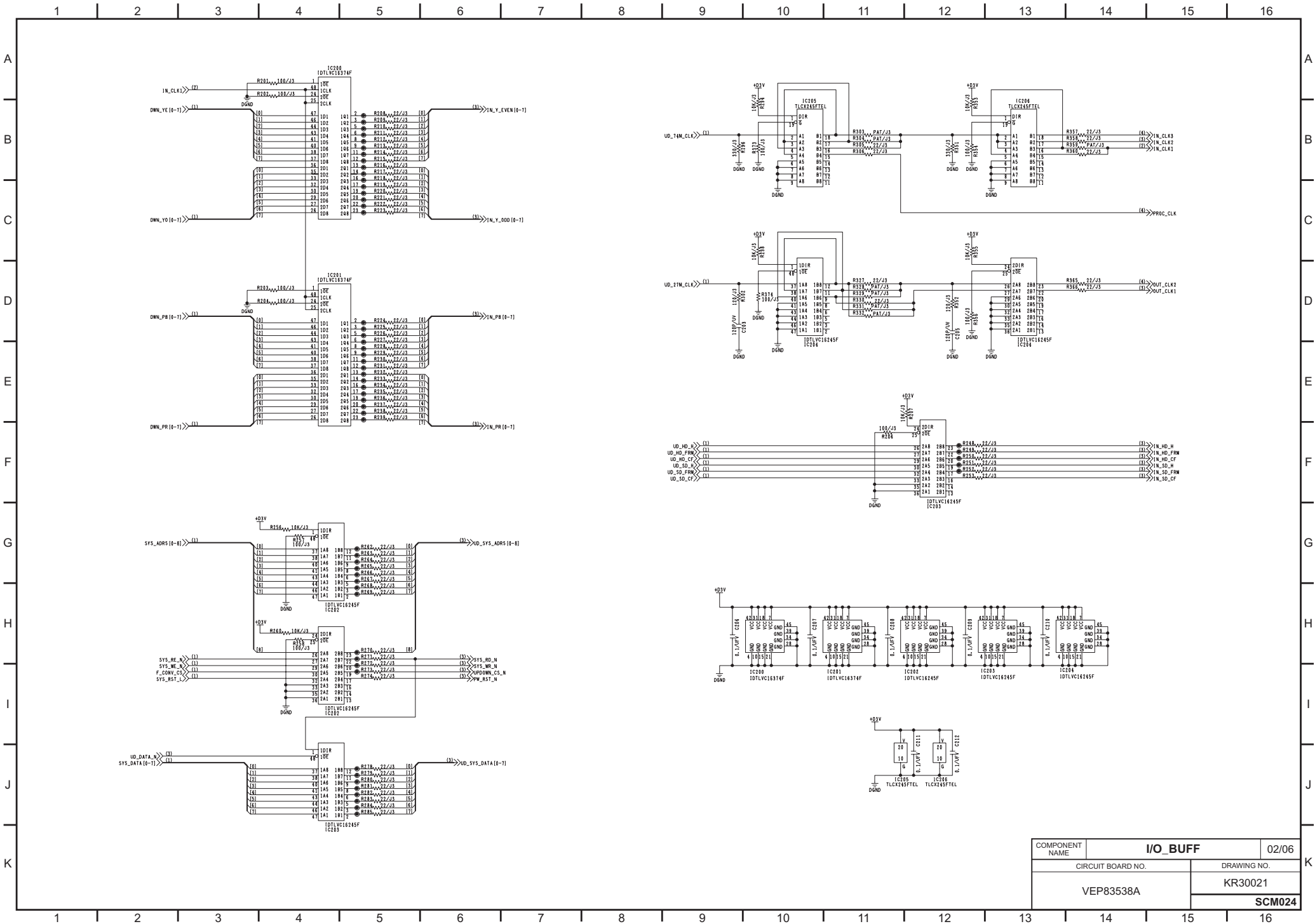
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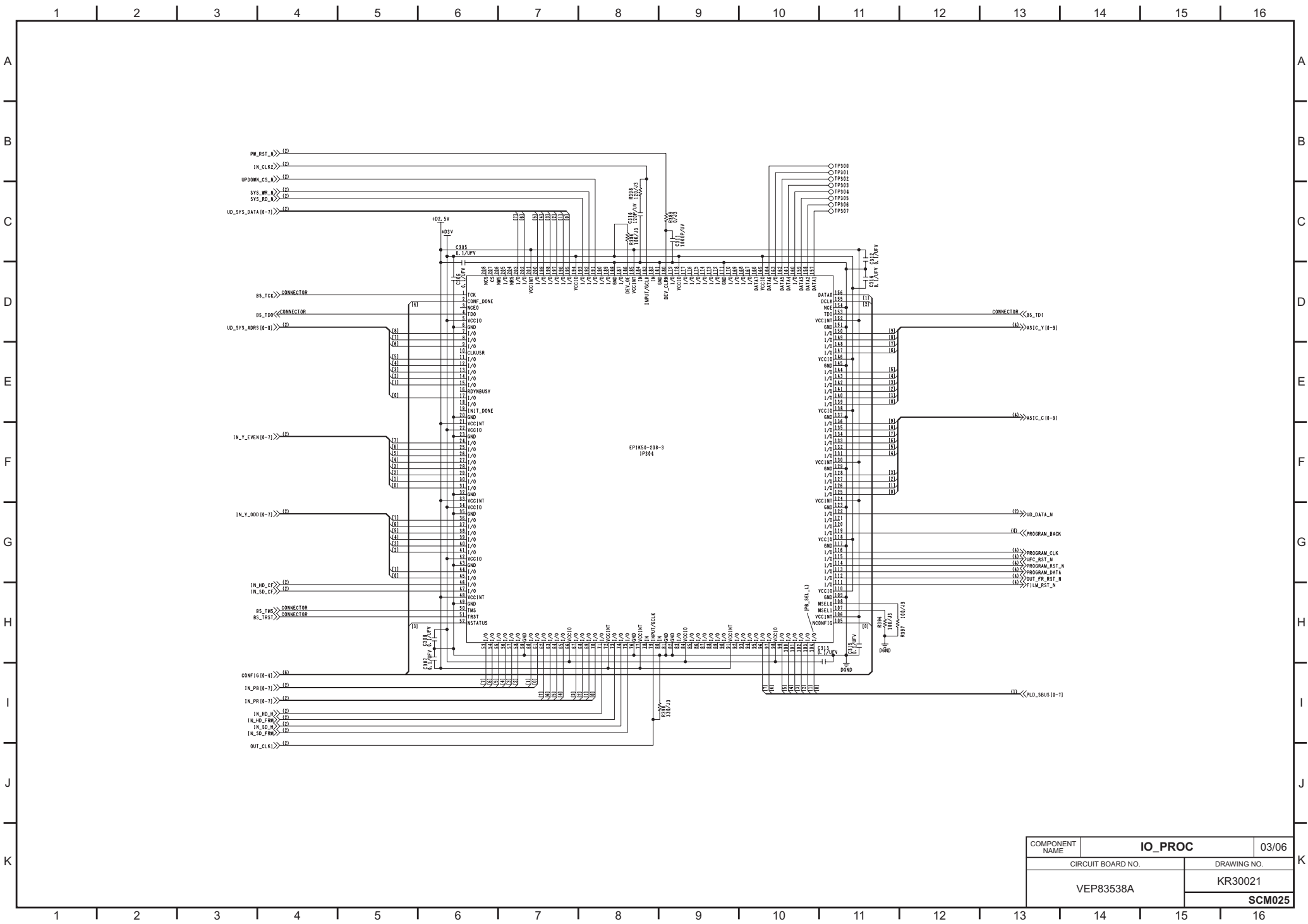


COMPONENT NAME	CONNECTOR	01/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83538A		KR30021
		SCM023

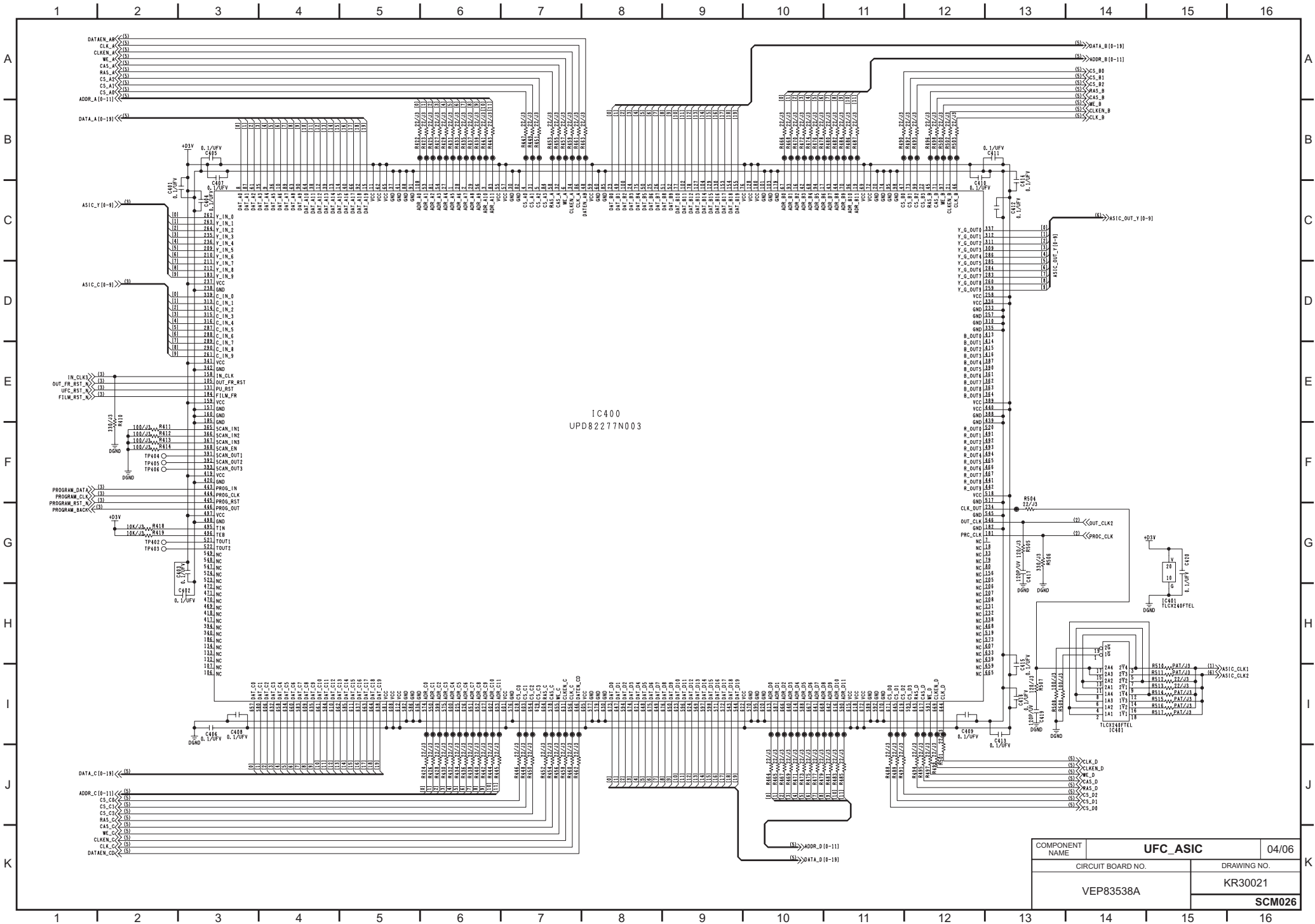
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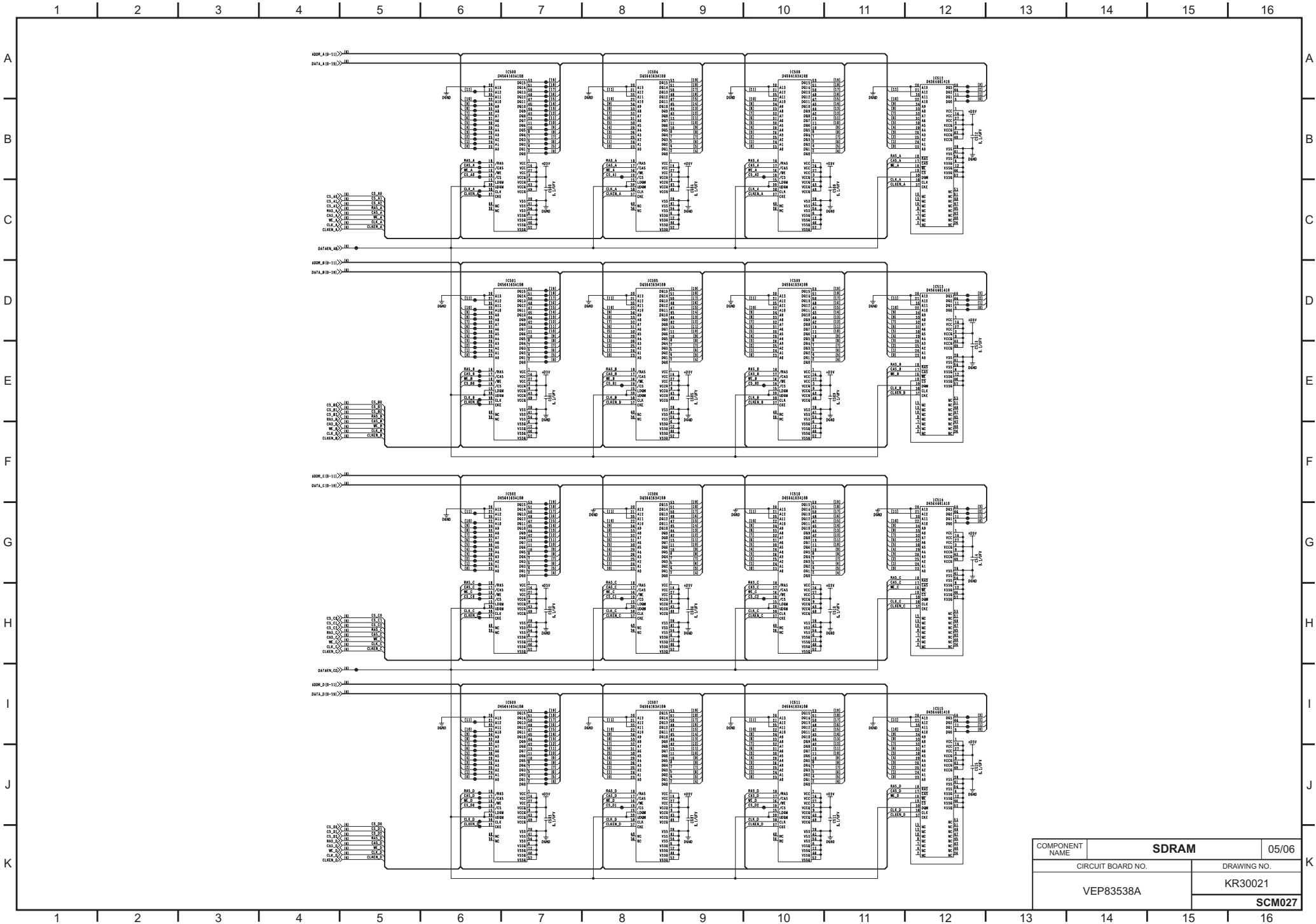


COMPONENT NAME	I/O_BUFF		02/06
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83538A		KR30021	
		SCM024	



COMPONENT NAME	IO_PROC	03/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83538A		KR30021
		SCM025

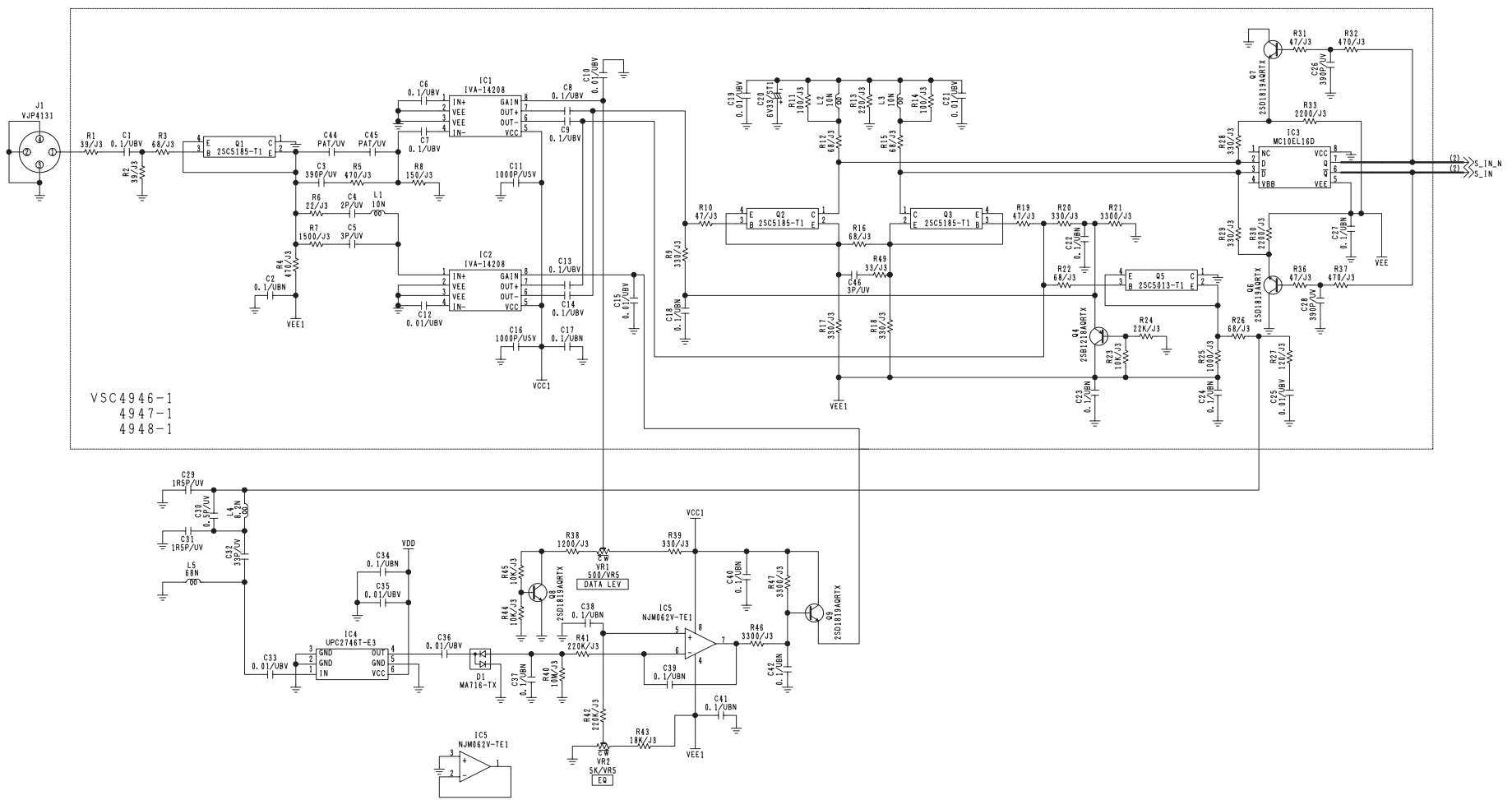




COMPONENT NAME	SDRAM	05/06
CIRCUIT BOARD NO.	VEP83538A	DRAWING NO.
		KR30021
		SCM027

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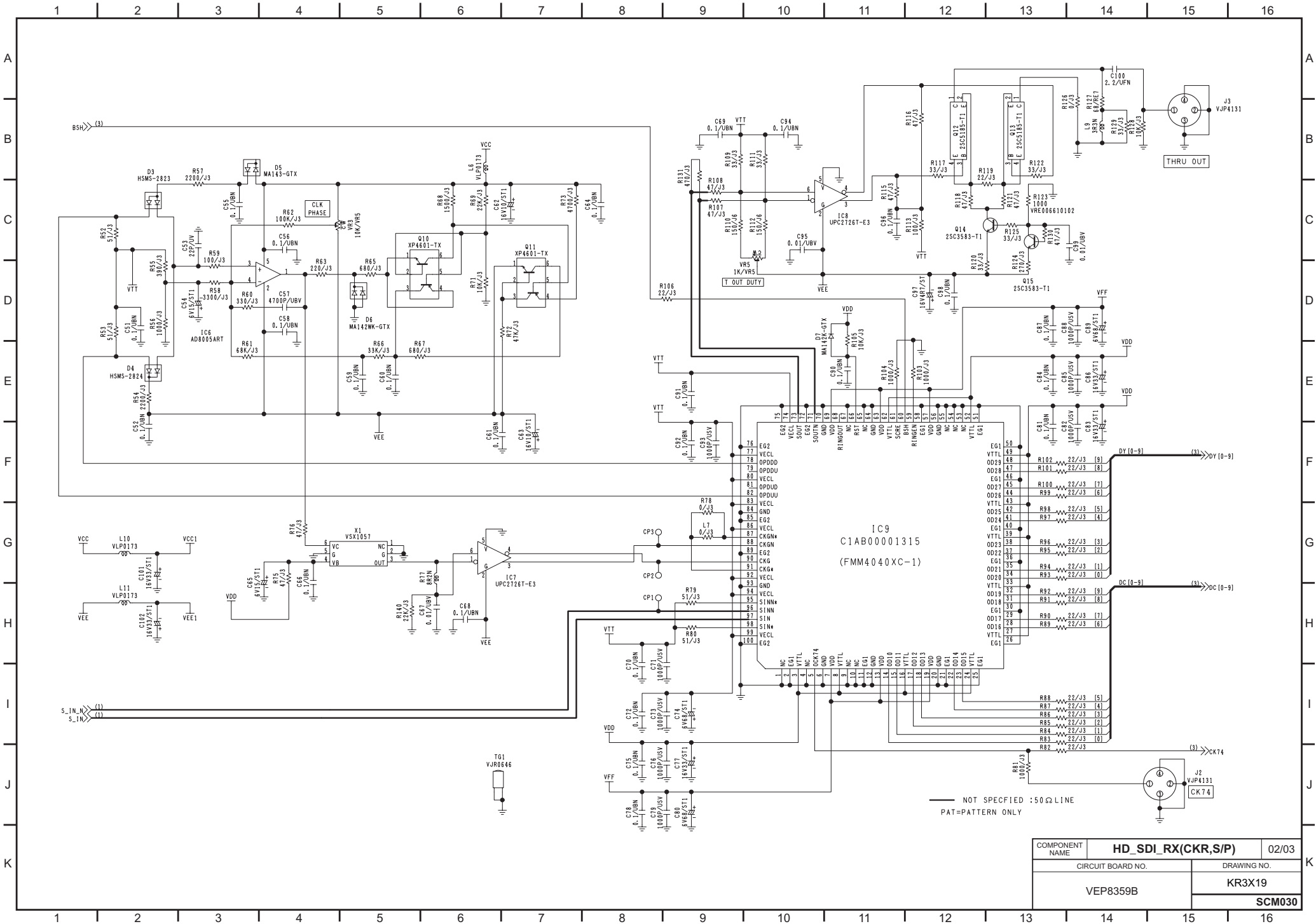


VSC4946-1
4947-1
4948-1

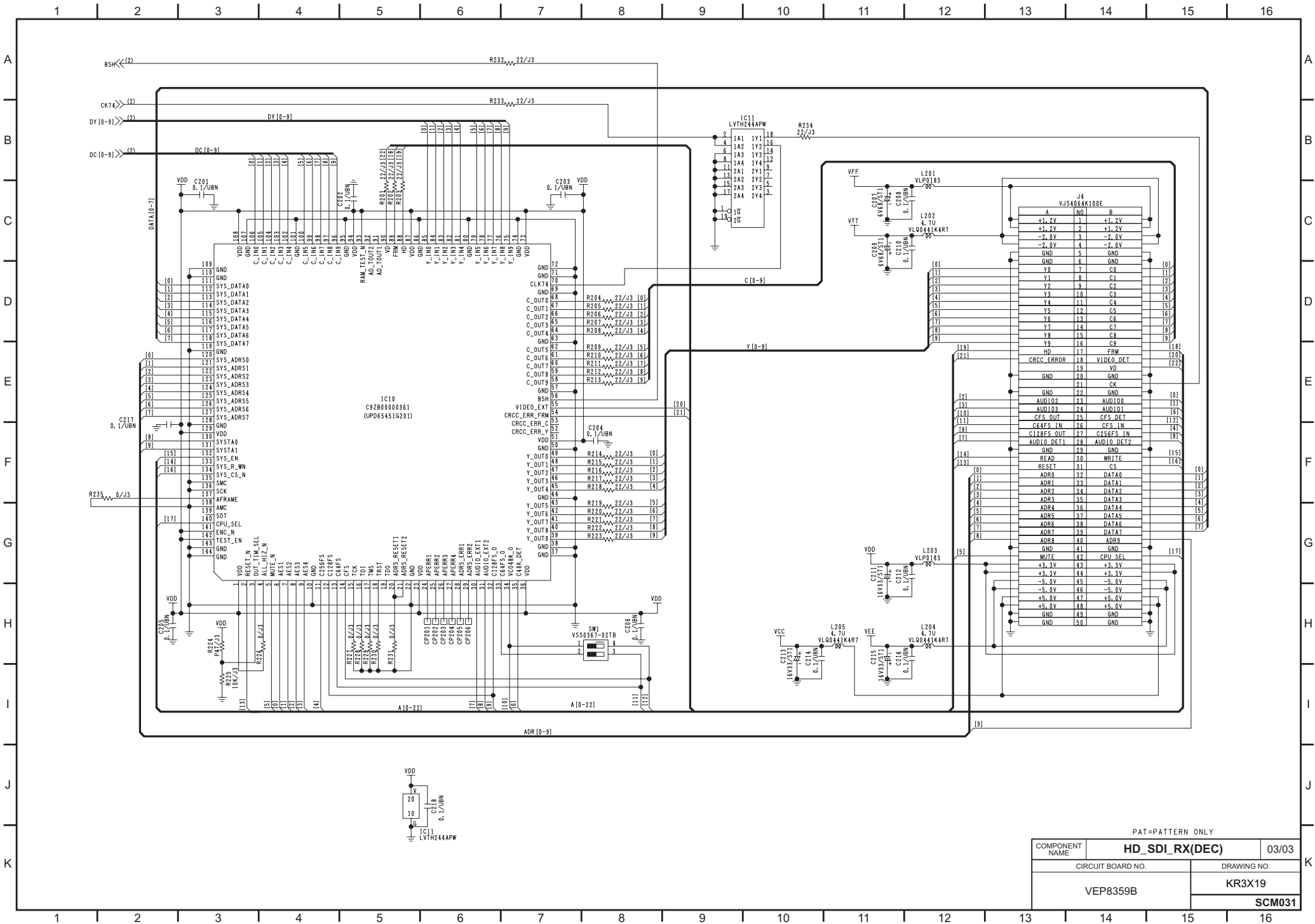
PAT= PATTERN ONLY

COMPONENT NAME	HD_SDI_RX(EQ)	01/03
CIRCUIT BOARD NO.	VEP8359B	DRAWING NO.
		KR3X19
		SCM029

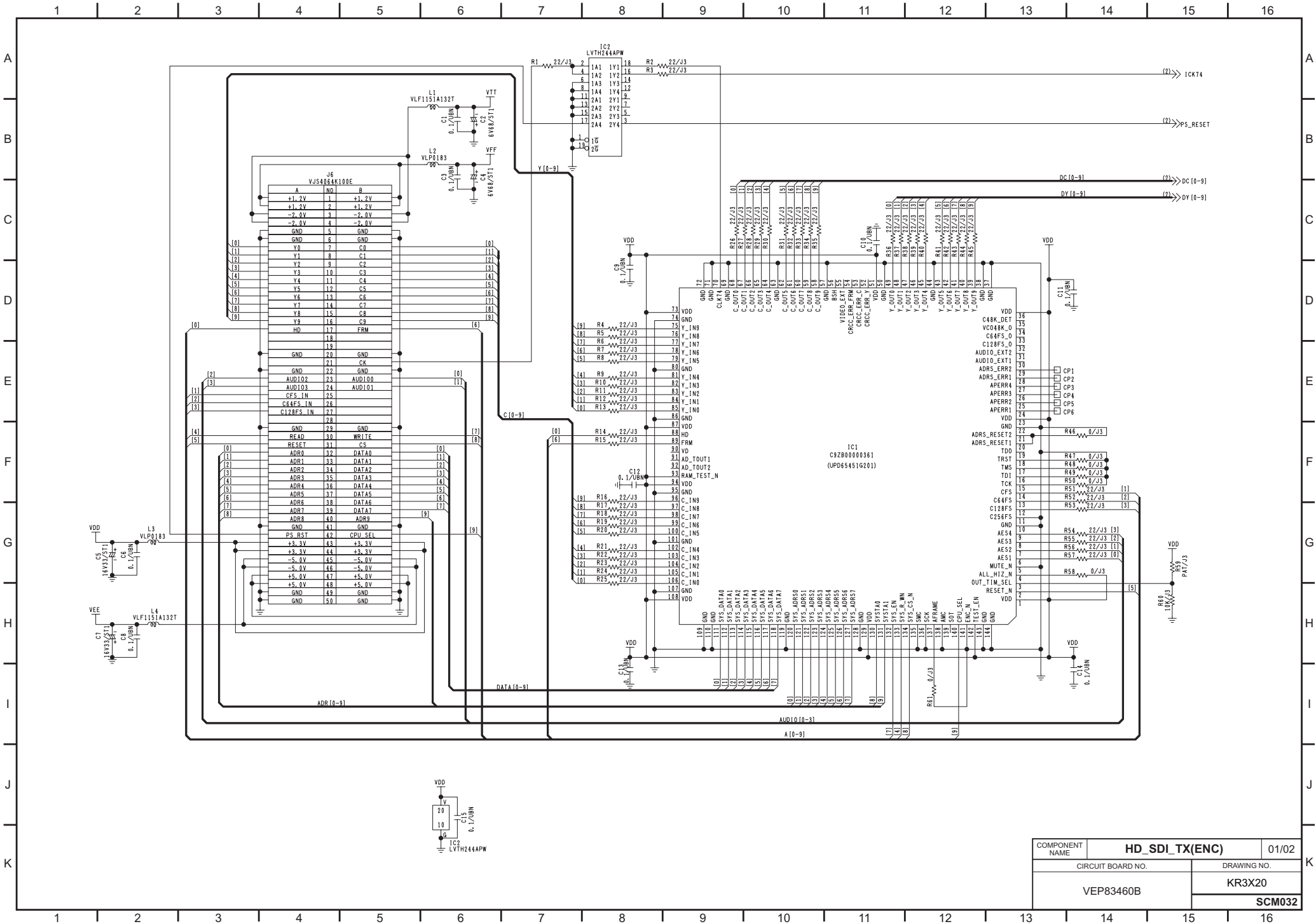
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME	HD_SDI_RX(CKR,S/P)	02/03
CIRCUIT BOARD NO.	VEP8359B	DRAWING NO.
		KR3X19
		SCM030



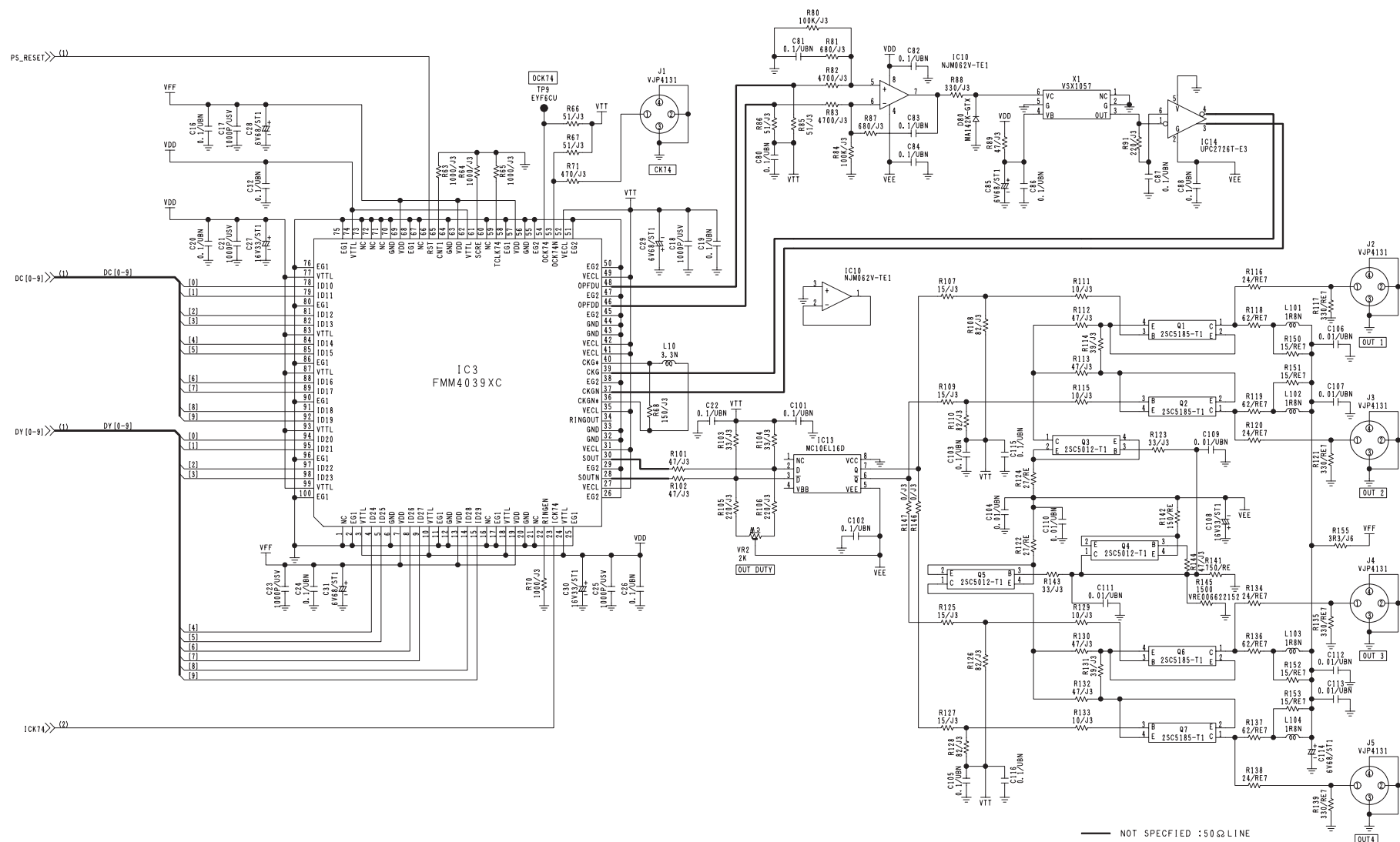
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COMPONENT NAME	HD_SDI_RX(DEC)	03/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP8359B		KR3X19
SCM031		



COMPONENT NAME	HD_SDI_TX(ENC)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83460B	KR3X20	
	SCM032	

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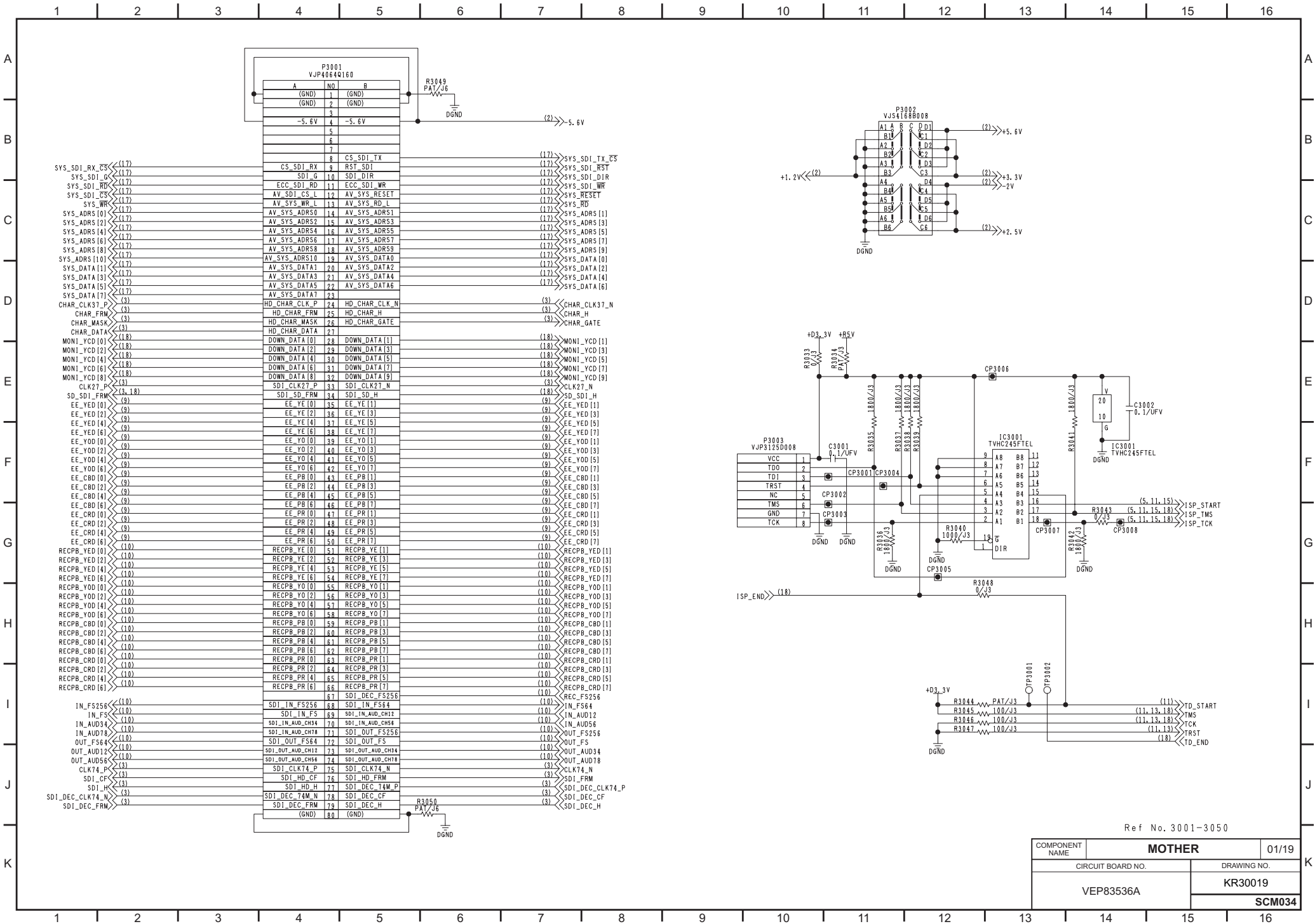
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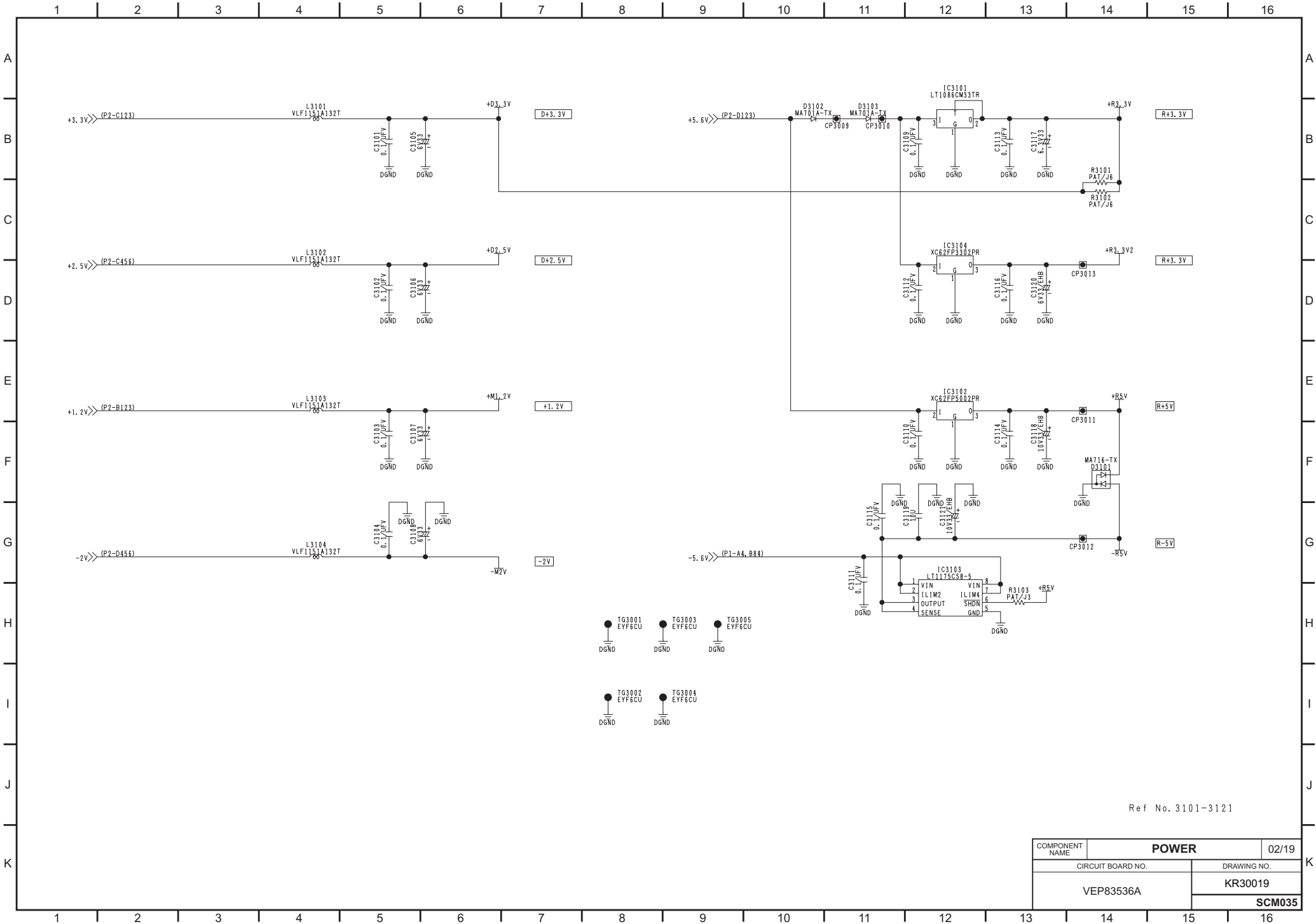


NOT SPECIFIED : 50Ω LINE

COMPONENT NAME	HD_SDI_TX(P/S,DRV)	02/02
CIRCUIT BOARD NO.	VEP83460B	DRAWING NO.
		KR3X20
		SCM033

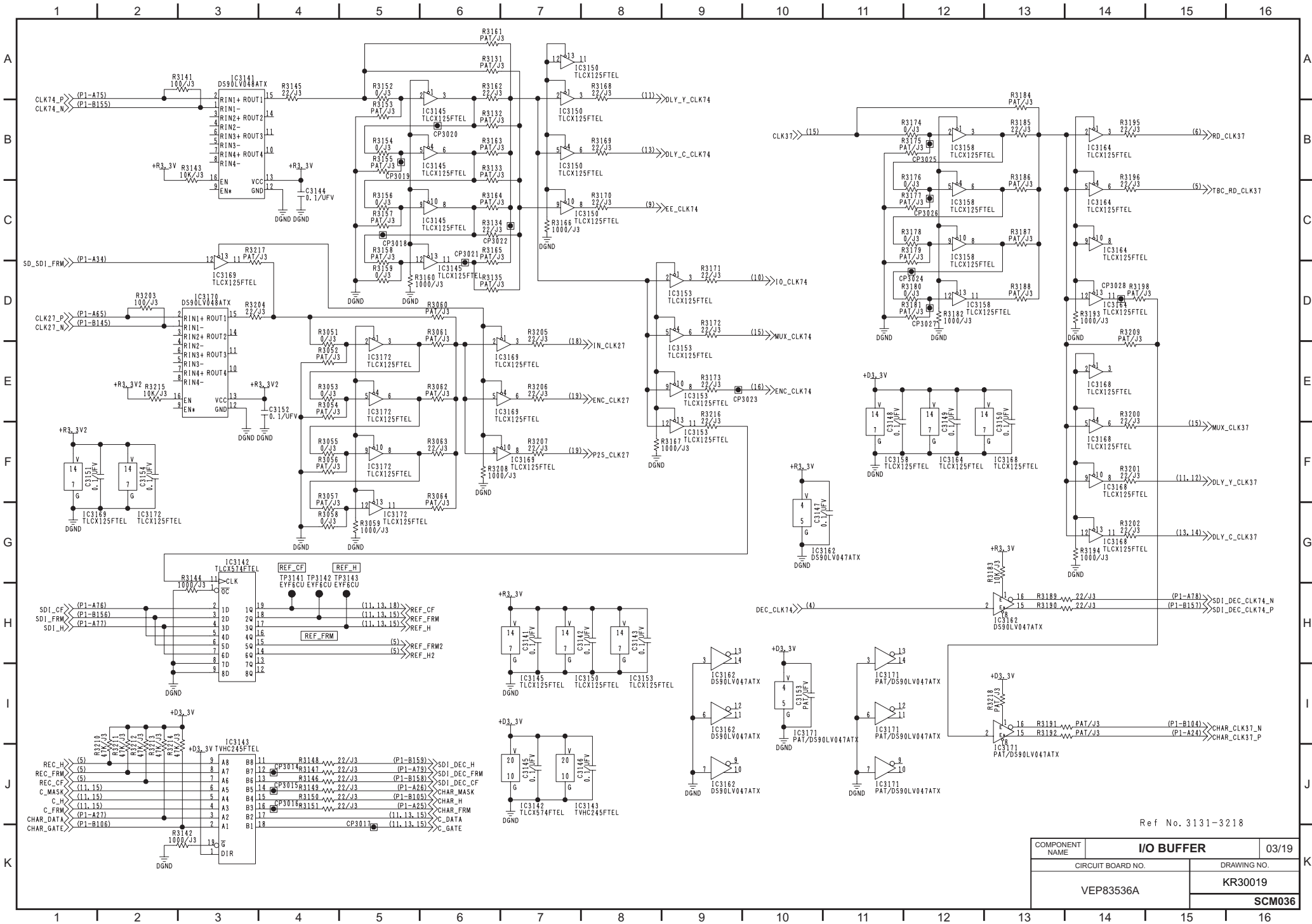
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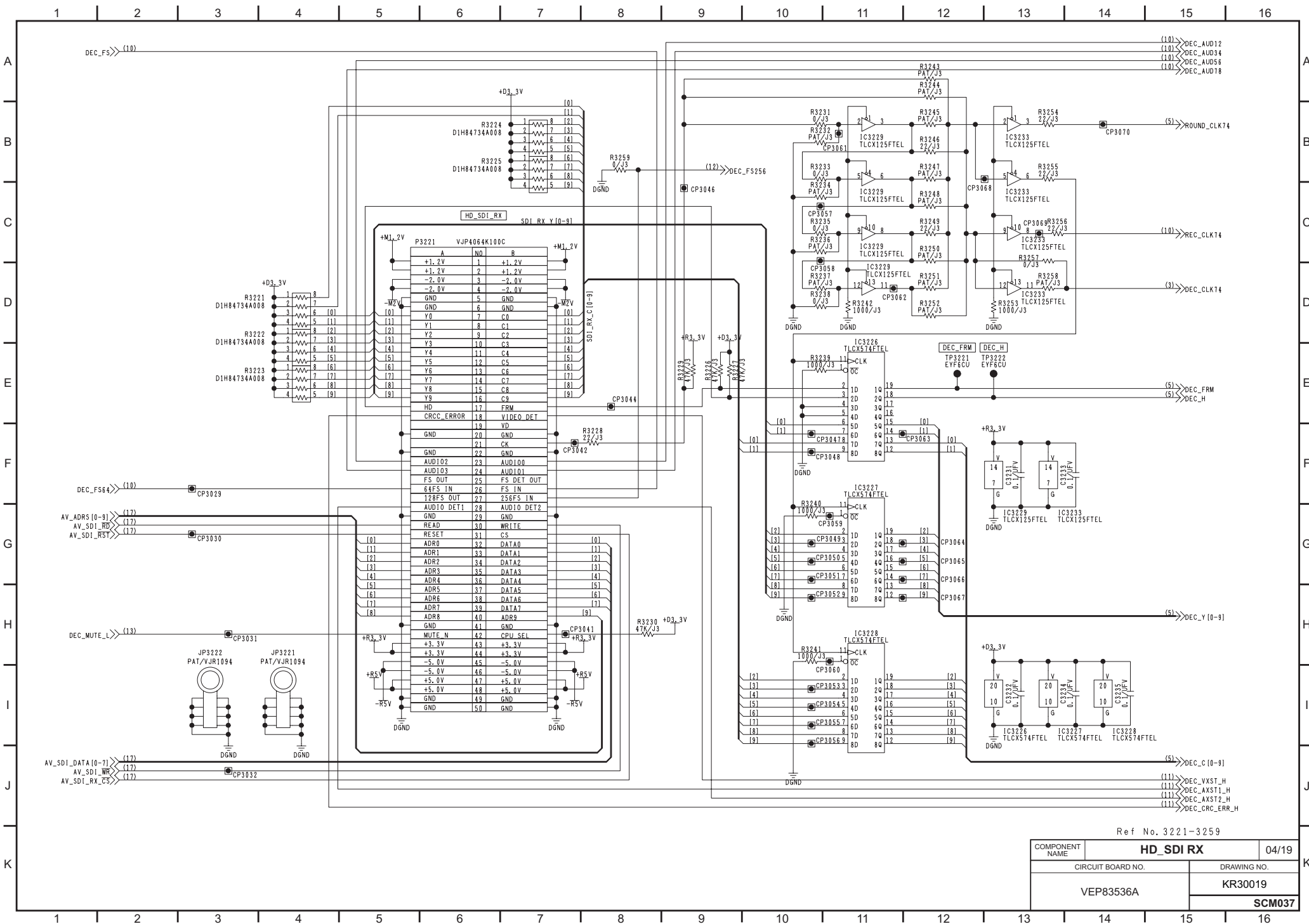


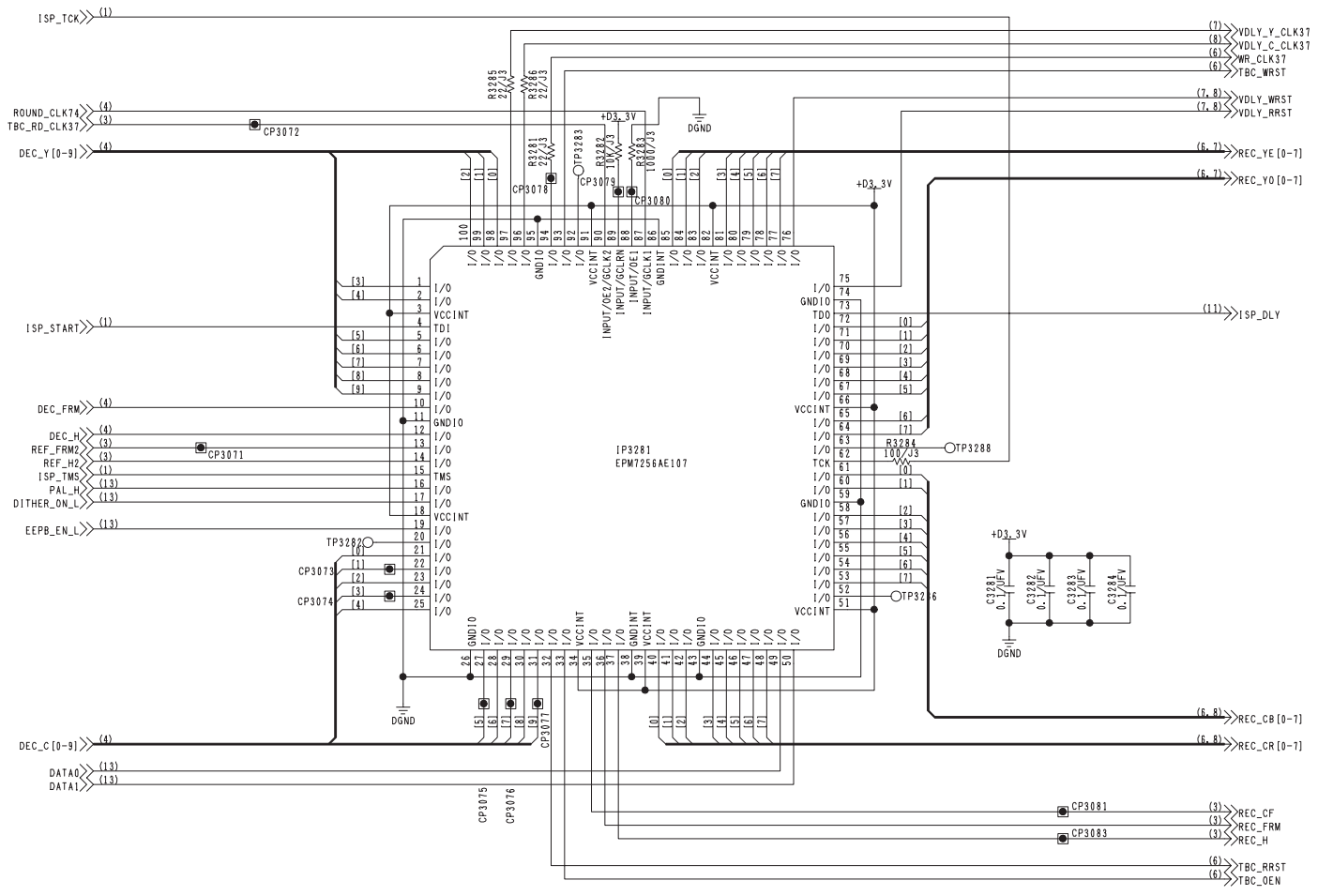
Ref No. 3101-3121

COMPONENT NAME	POWER	02/19
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83536A	KR30019	
	SCM035	



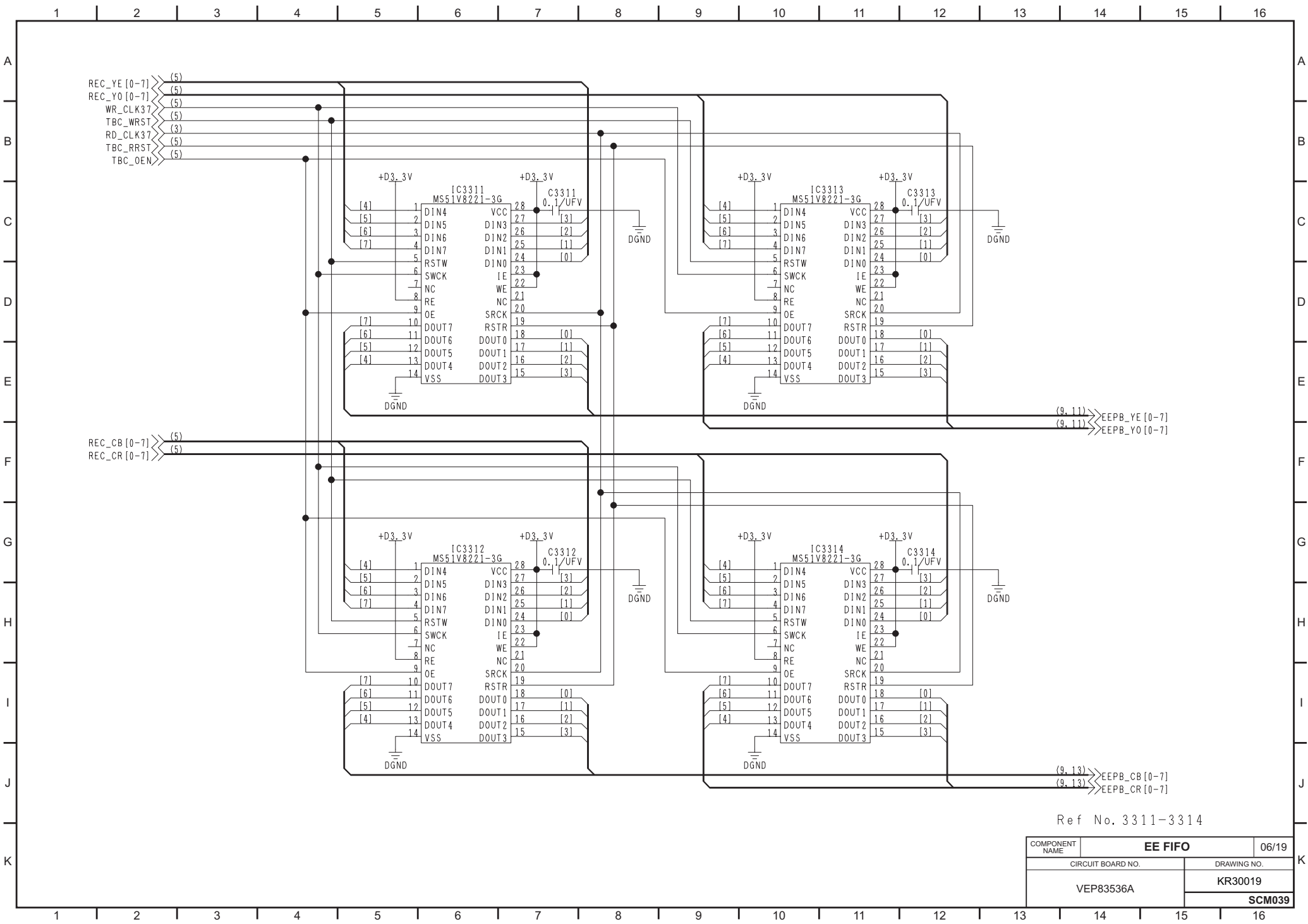
COMPONENT NAME	I/O BUFFER	03/19
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83536A	KR30019	
	SCM036	





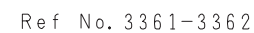
Ref No. 3281-3288

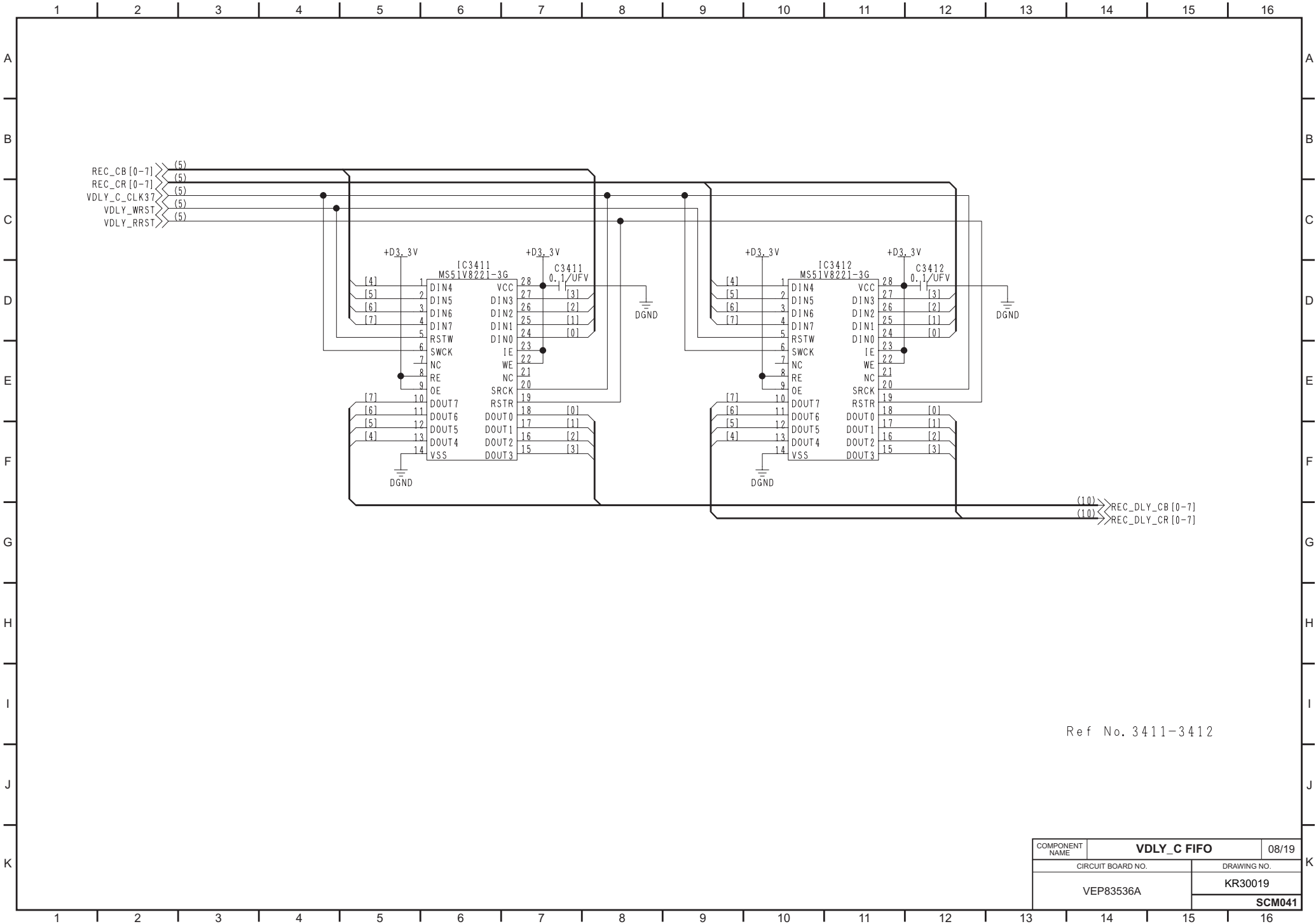
COMPONENT NAME	ROUNDING		05/19
	CIRCUIT BOARD NO.		DRAWING NO.
VEP83536A		KR30019	
		SCM038	



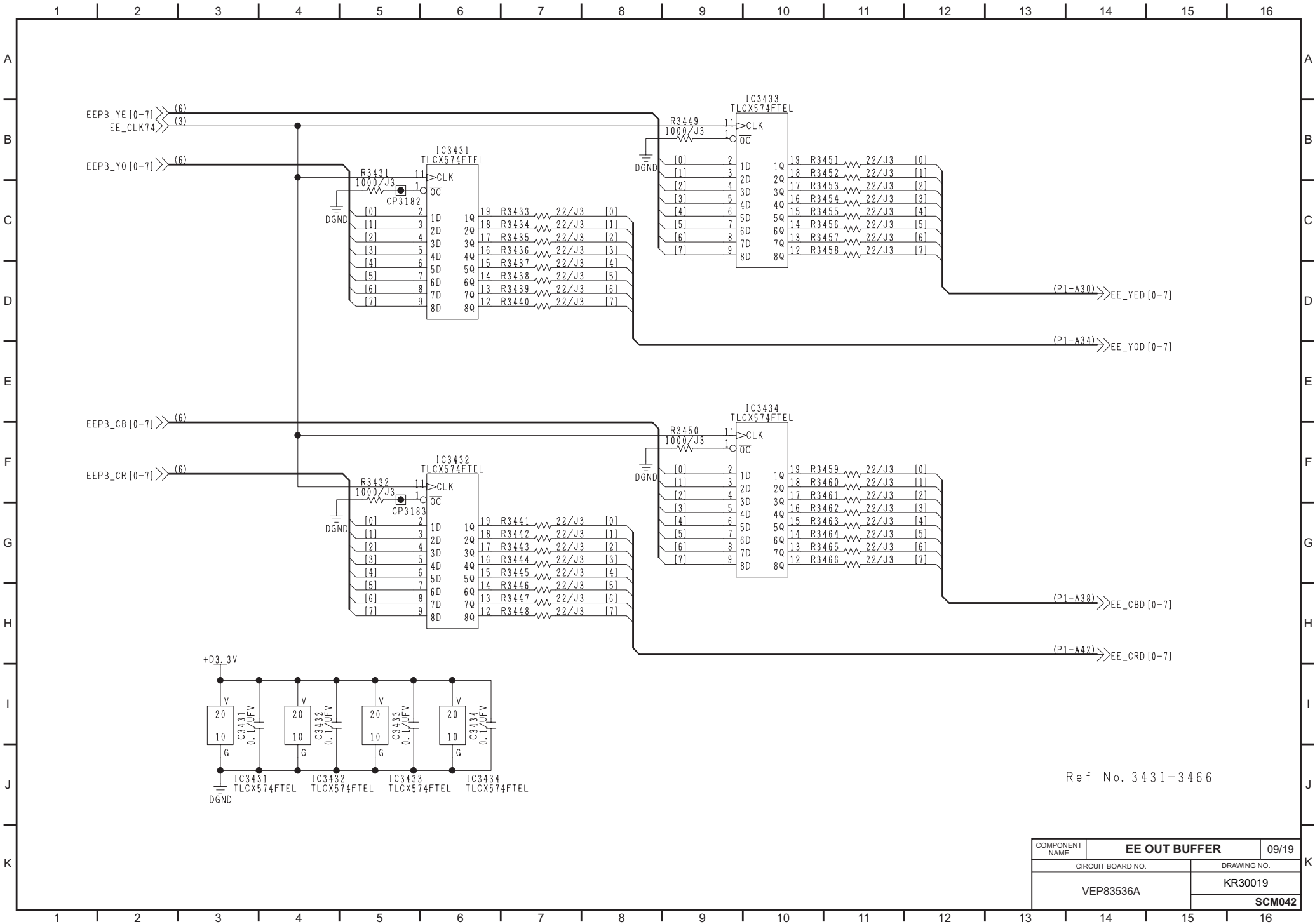
Ref No. 3311-3314

COMPONENT NAME	EE FIFO	06/19
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83536A	KR30019	
	SCM039	

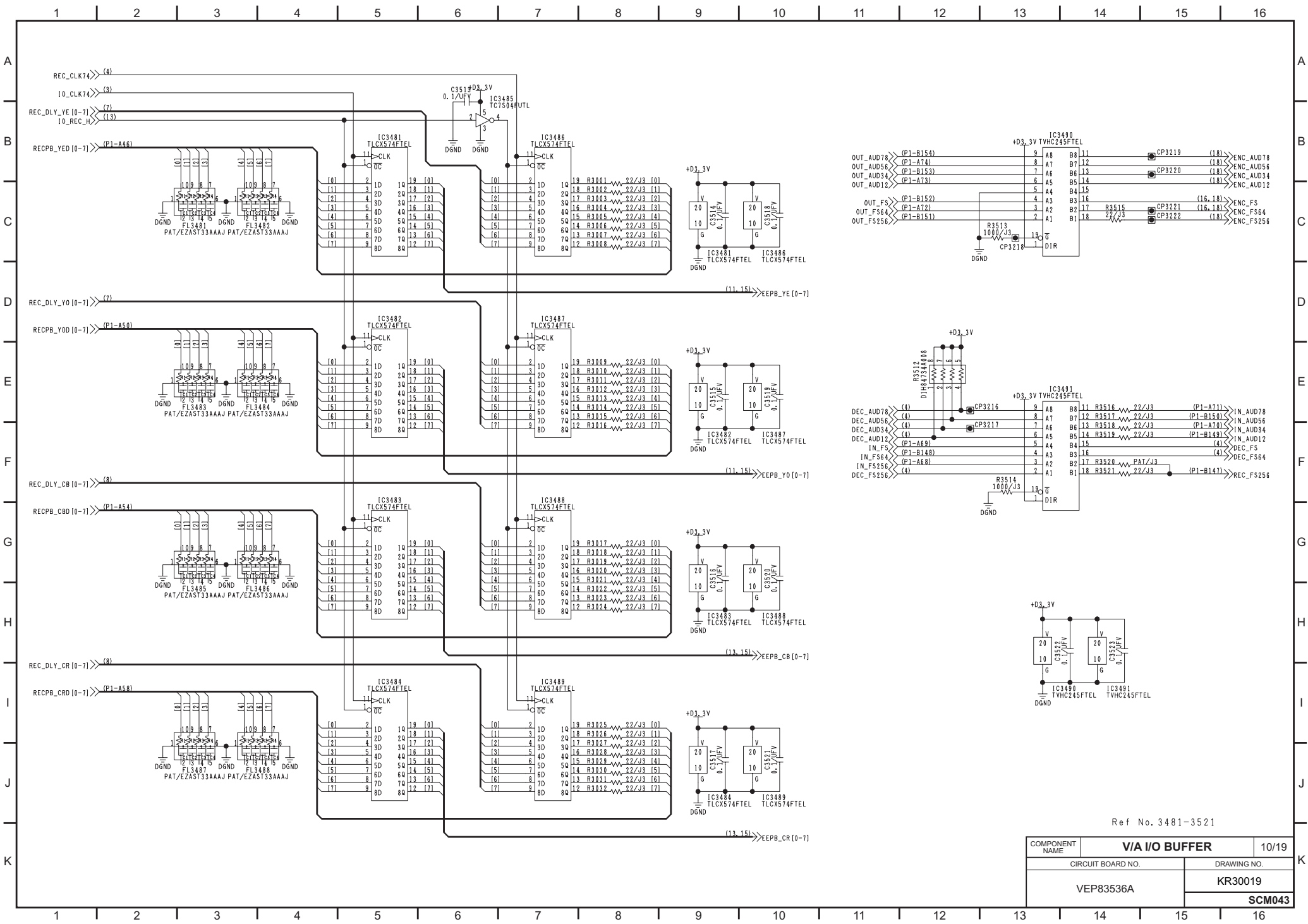
K



COMPONENT NAME	VDLY_C FIFO	08/19
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83536A	KR30019	
		SCM041

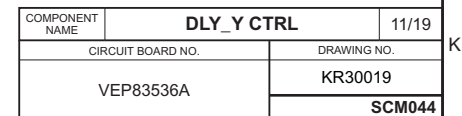


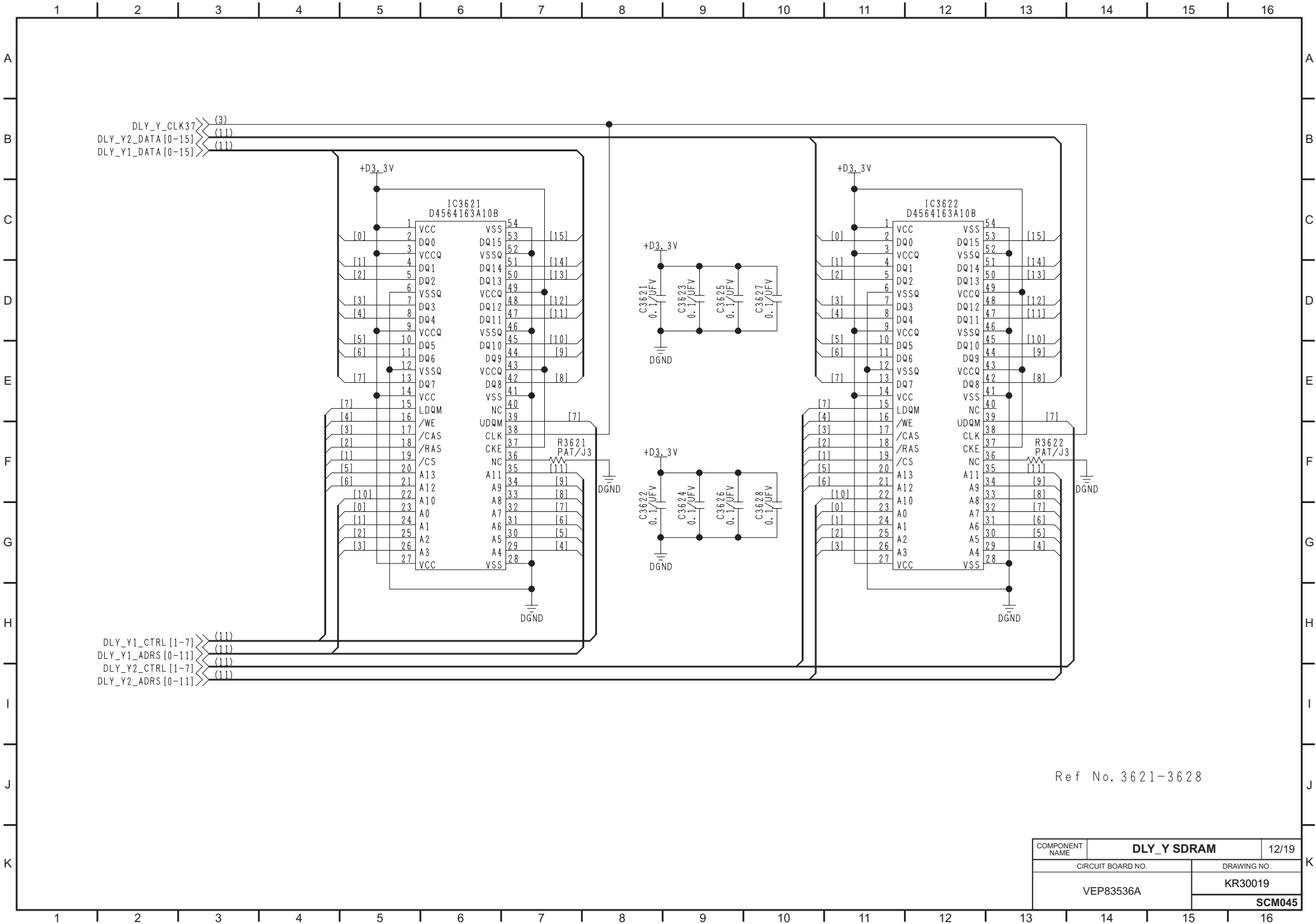
COMPONENT NAME	EE OUT BUFFER		09/19
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83536A		KR30019	
		SCM042	



Ref No. 3481-3521

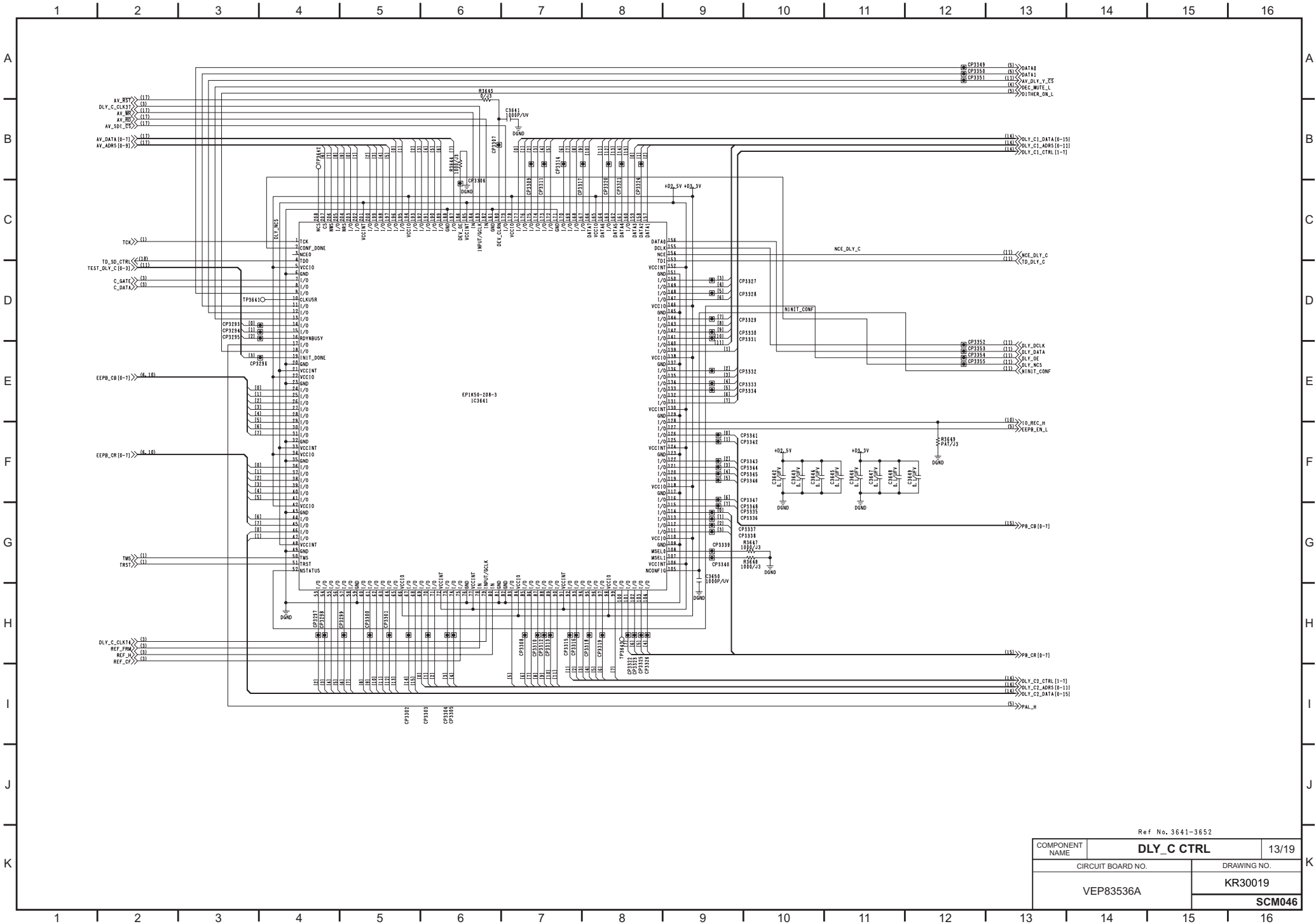
COMPONENT NAME	V/A I/O BUFFER	10/19
CIRCUIT BOARD NO.	VEP83536A	DRAWING NO.
		KR30019
		SCM043





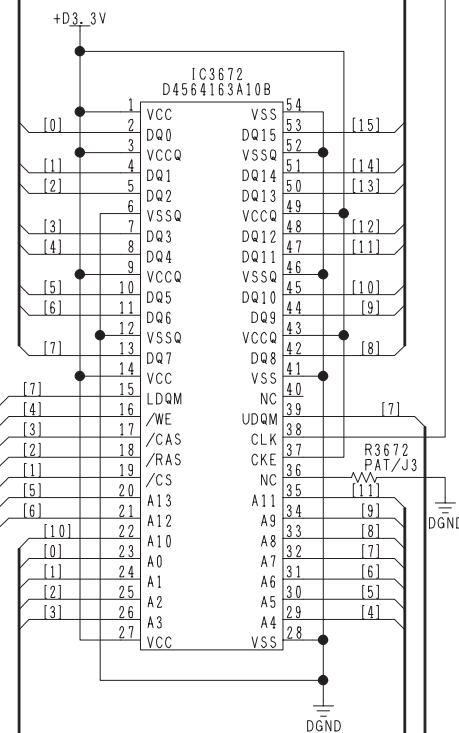
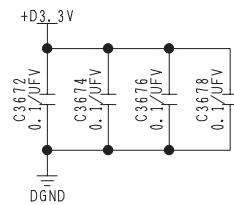
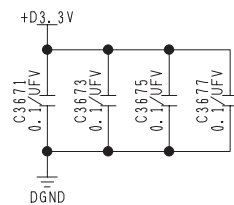
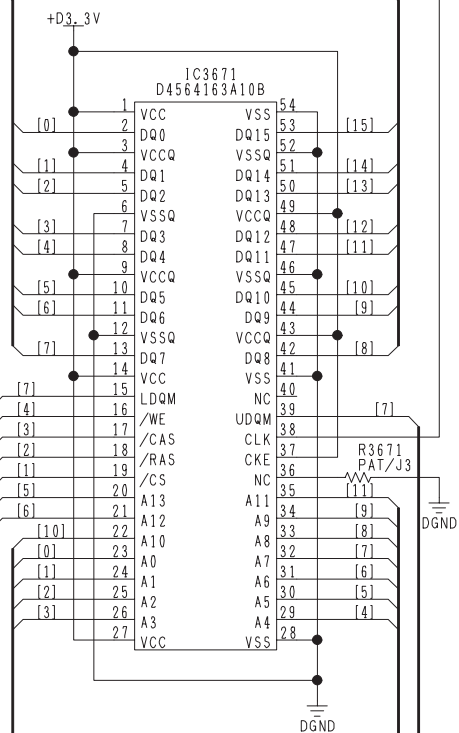
Ref No. 3621-3628

COMPONENT NAME	DLY_Y SDRAM	12/19
CIRCUIT BOARD NO.	VEP83536A	DRAWING NO.
		KR30019
		SCM045



Ref No. 3641-3652		
COMPONENT NAME	DLY_C CTRL	13/19
CIRCUIT BOARD NO.		DRAWING NO.
VEP83536A		KR30019
		SCM046

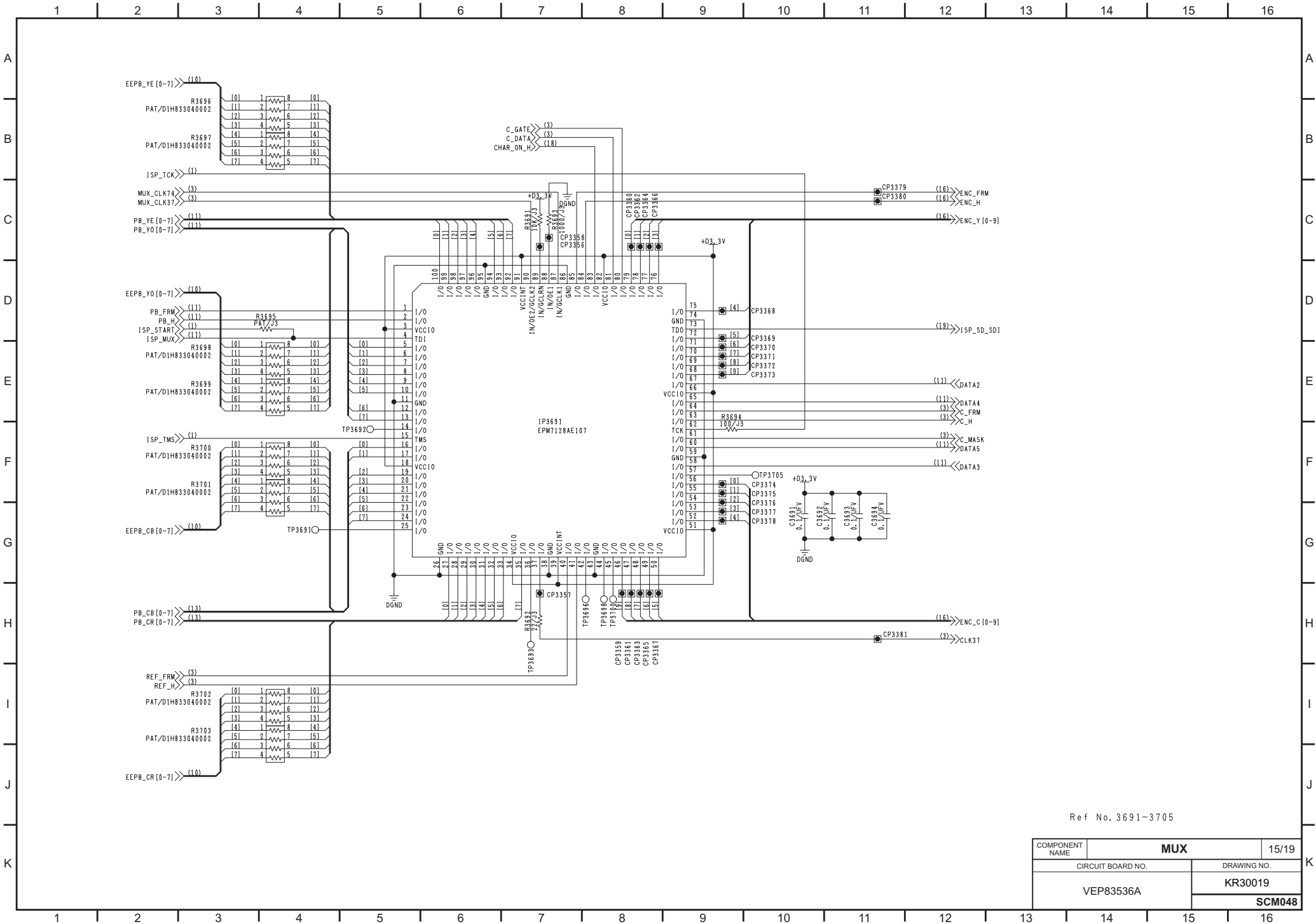
DLY_C_CLK37 (3)
DLY_C2_DATA [0-15] (13)
DLY_C1_DATA [0-15] (13)



DLY_C1_CTRL [1-7] (13)
DLY_C1_ADRS [0-11] (13)
DLY_C2_CTRL [1-7] (13)
DLY_C2_ADRS [0-11] (13)

Ref No. 3671-3678

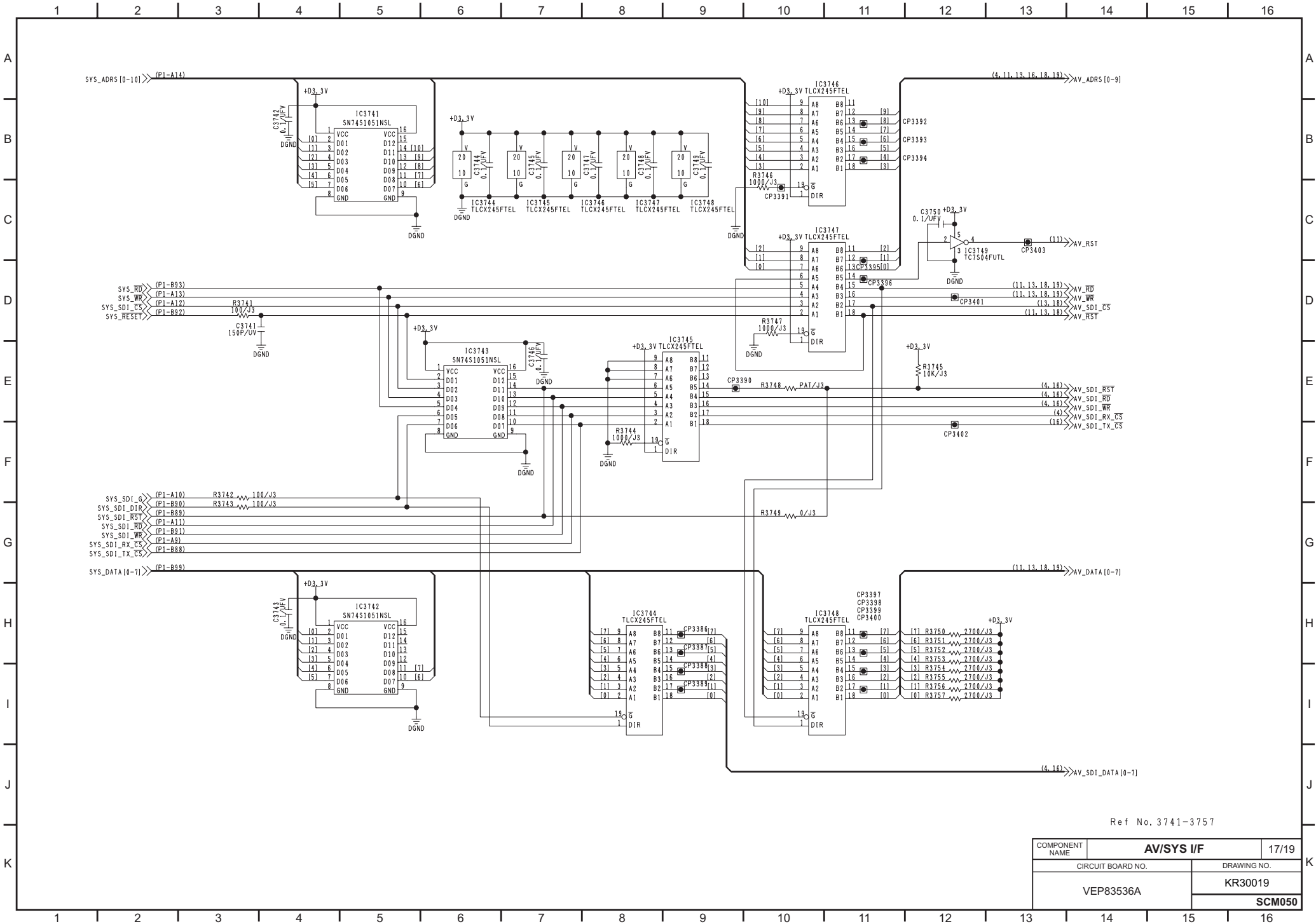
COMPONENT NAME	DLY_C SDRAM	14/19
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83536A	KR30019	
	SCM047	



Ref No. 3691-3705

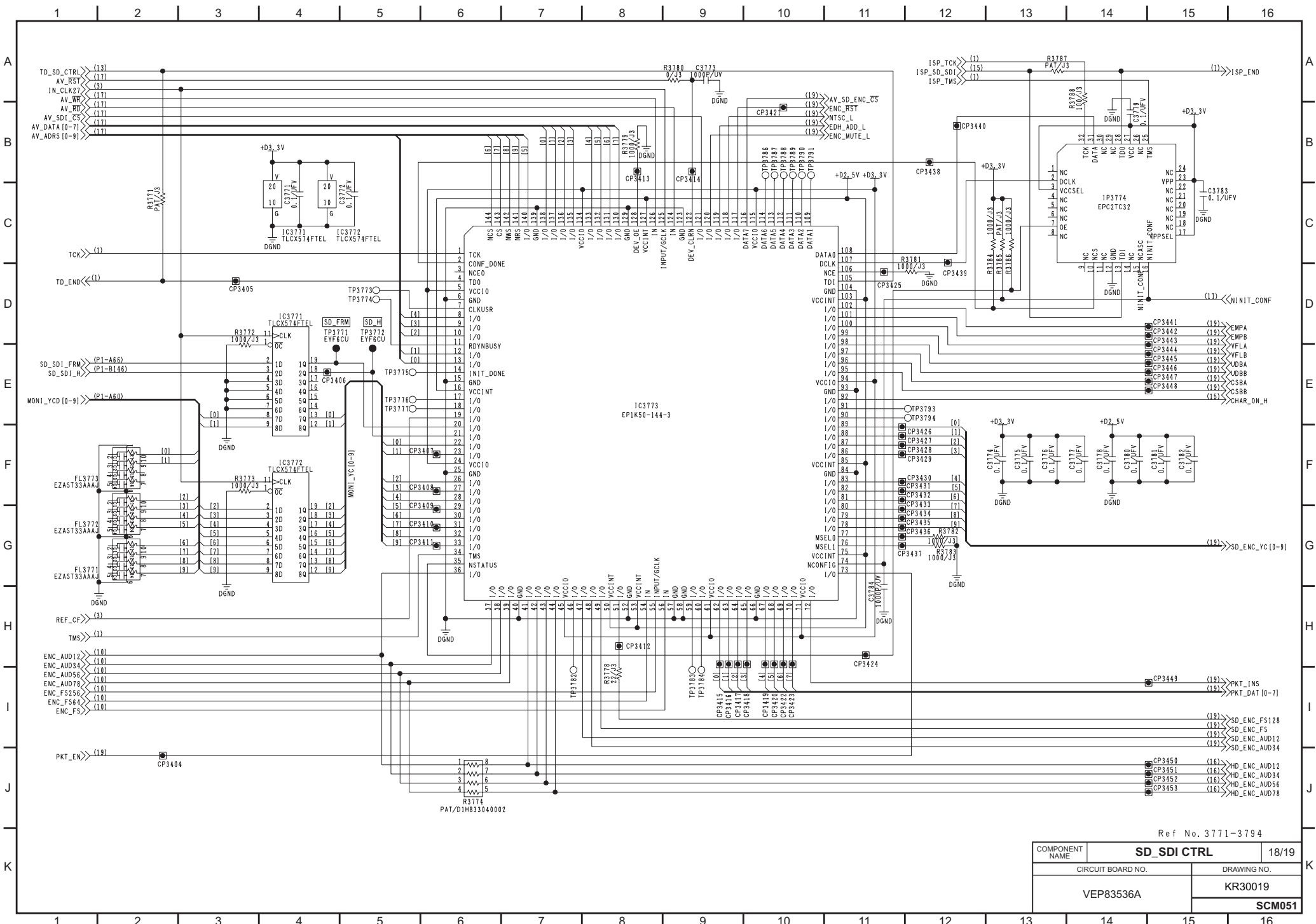
COMPONENT NAME	MUX		15/19
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83536A		KR30019	
		SCM048	

COMPONENT NAME	HD_SDI TX		16/19
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83536A		KR30019	
		SCM049	

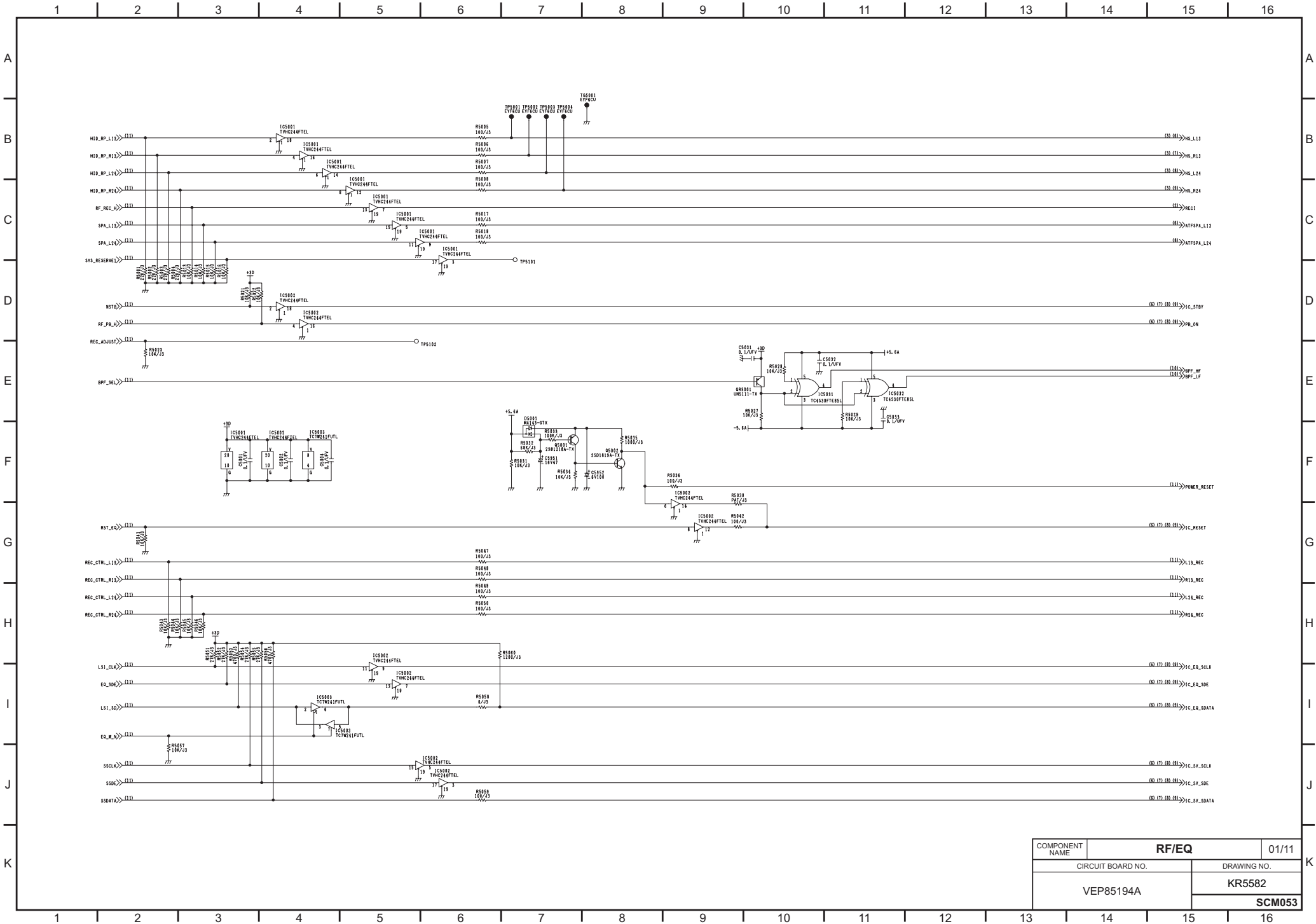


Ref No. 3741-3757

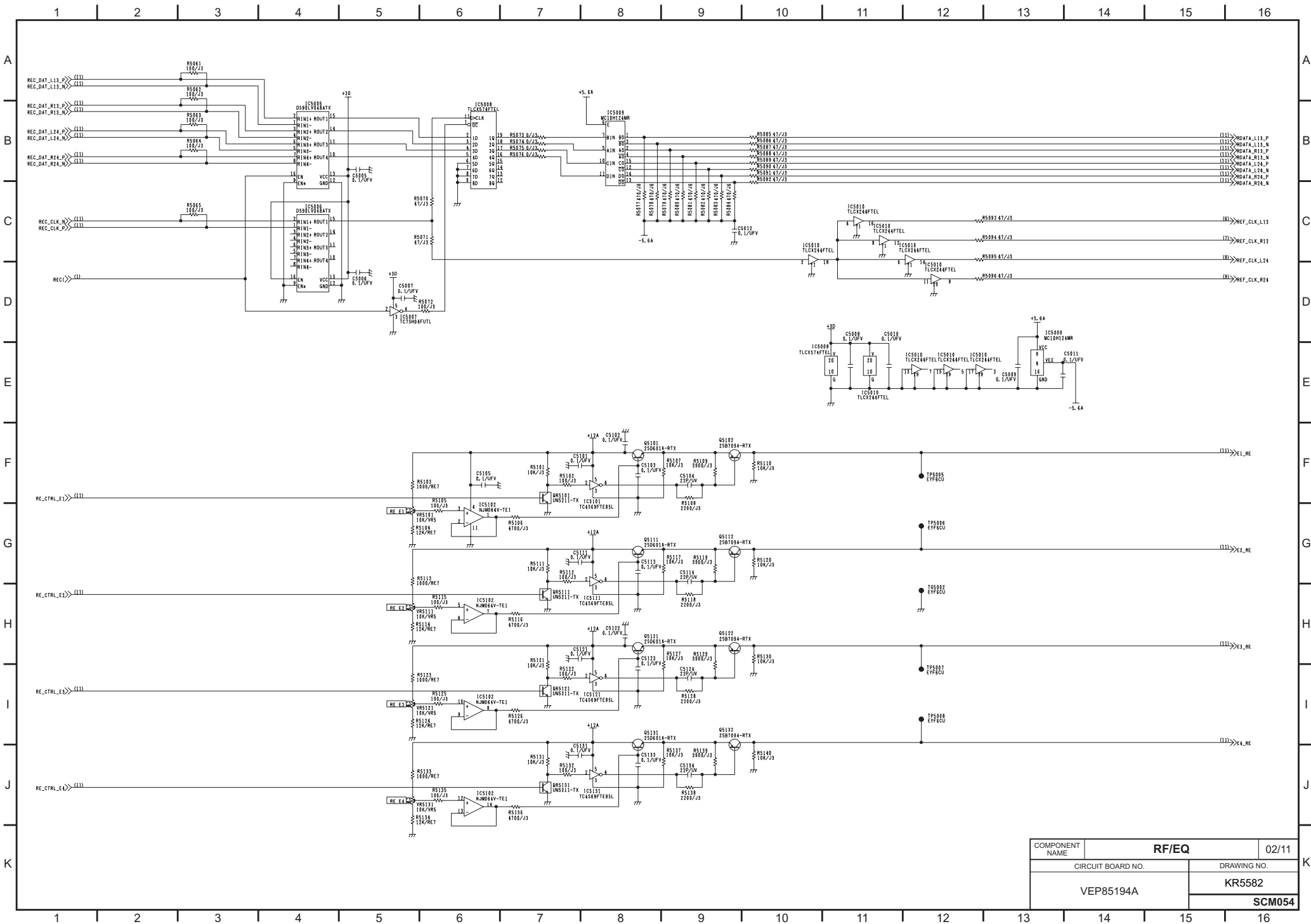
COMPONENT NAME	AV/SYS I/F		17/19
	CIRCUIT BOARD NO.		DRAWING NO.
VEP83536A		KR30019	
		SCM050	

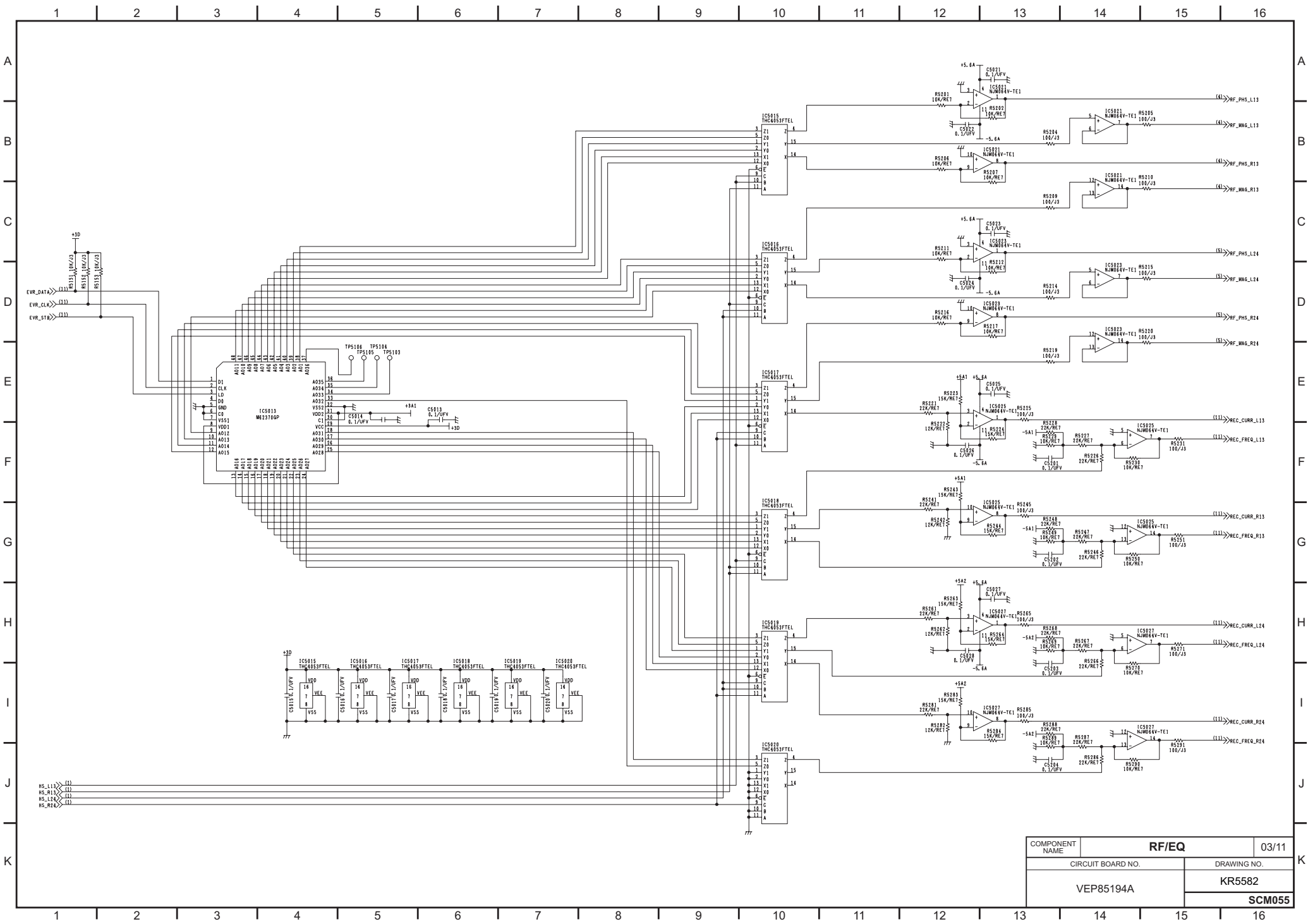


Ref No. 3771-3794	
COMPONENT NAME	SD_SDI_CTRL
CIRCUIT BOARD NO.	18/19
VEP83536A	KR30019
SCM051	

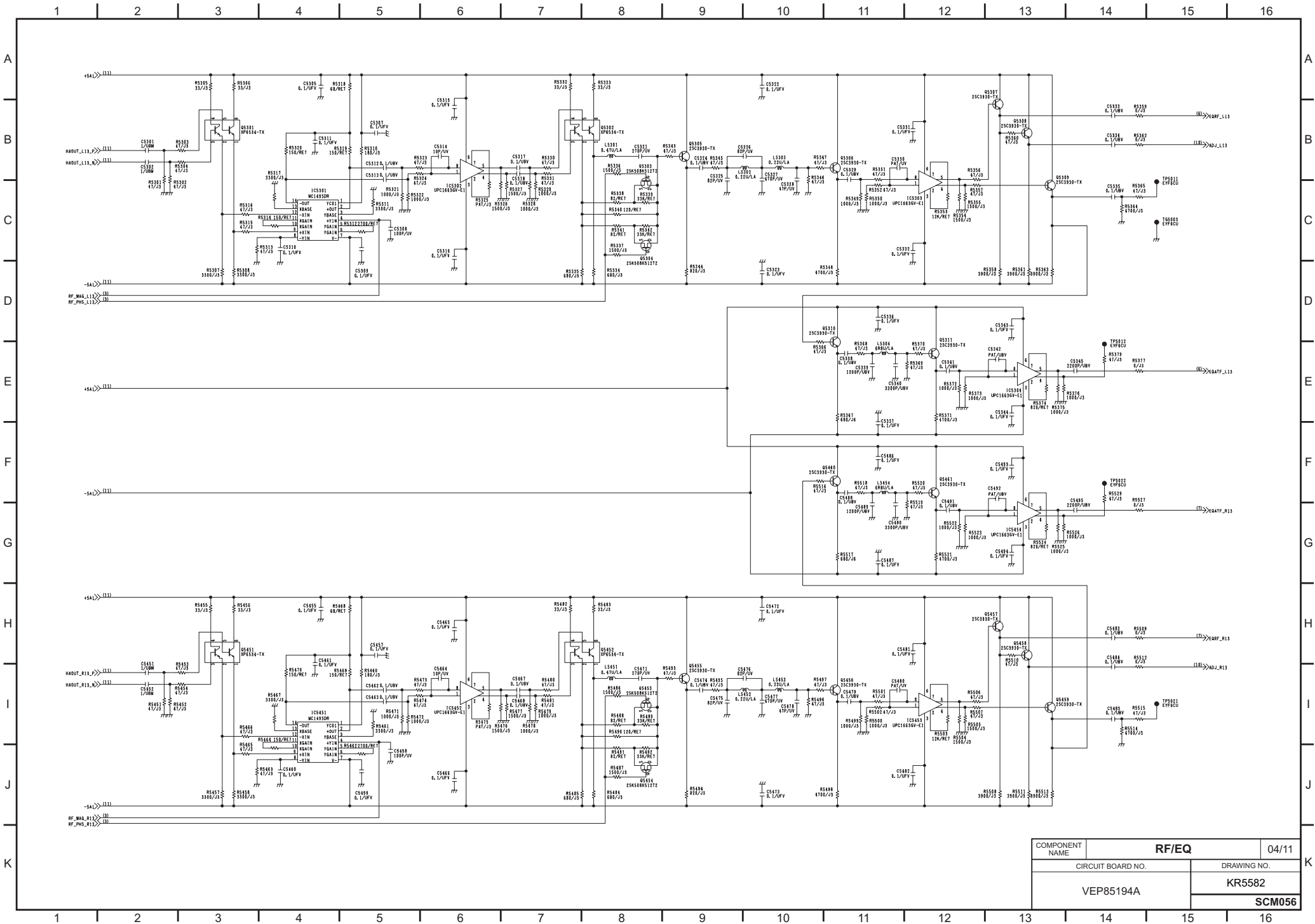


COMPONENT NAME	RF/EQ		01/11
	CIRCUIT BOARD NO.		DRAWING NO.
VEP85194A		KR5582	
		SCM053	

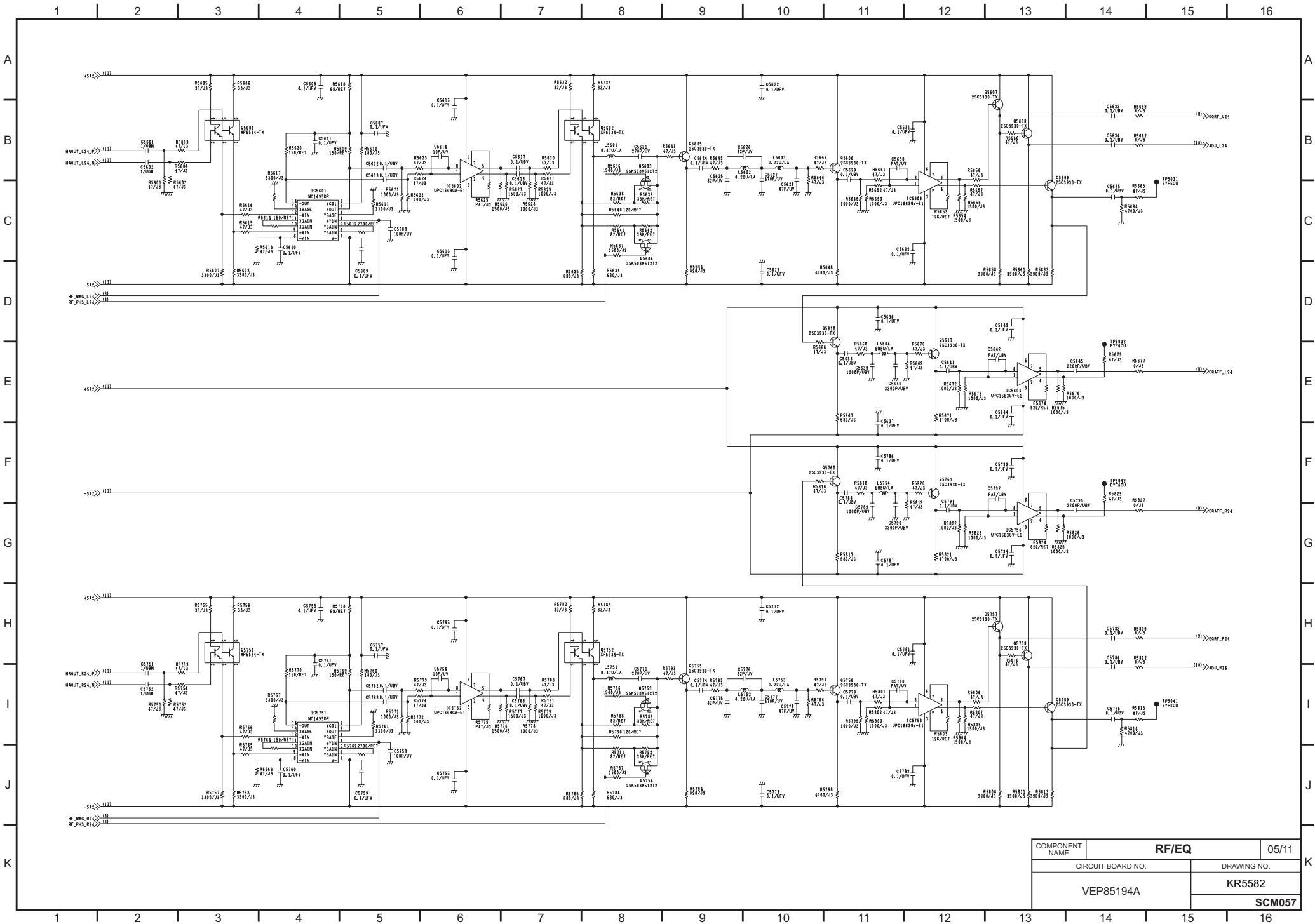




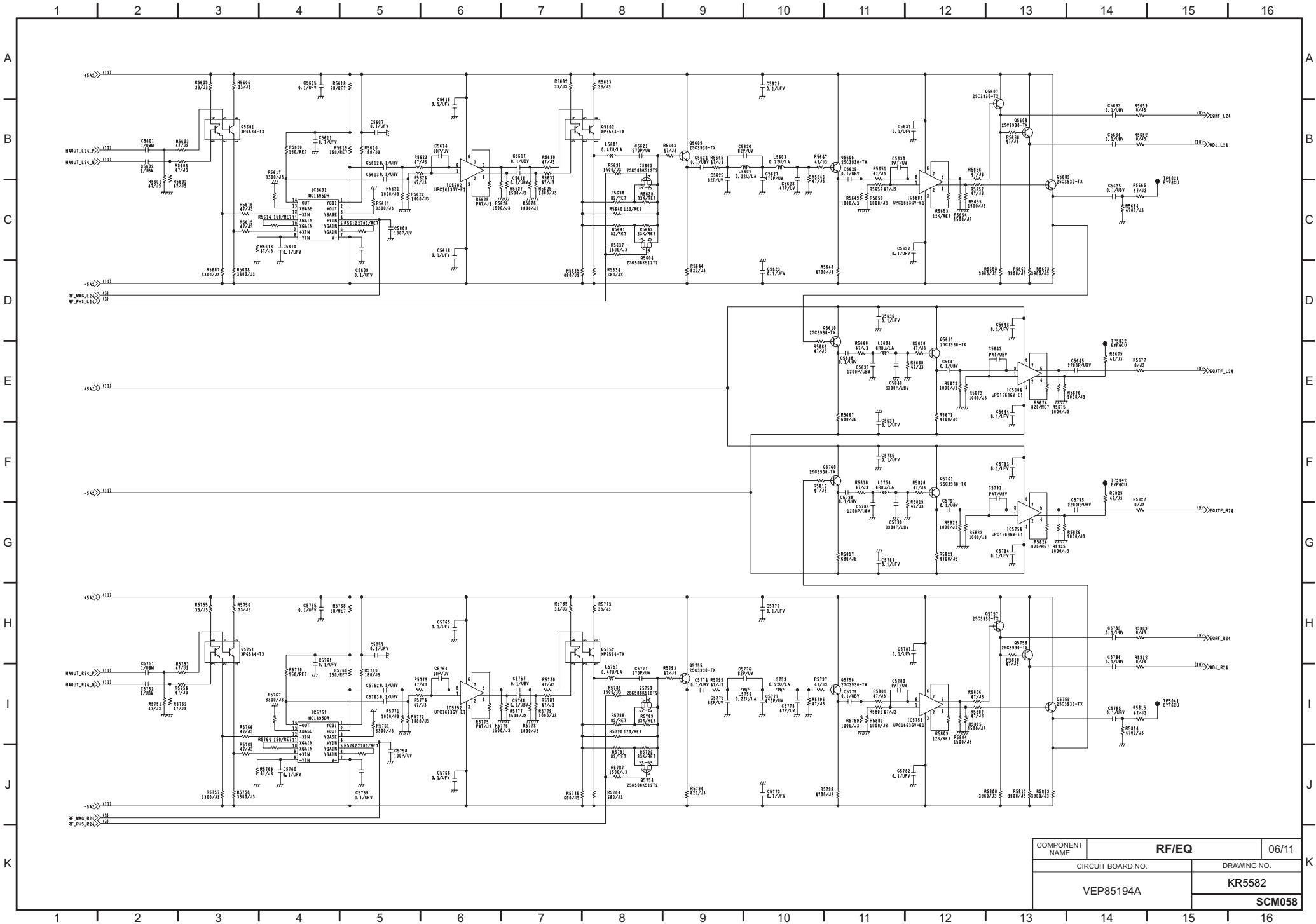
COMPONENT NAME	RF/EQ		03/11
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85194A		KR5582	
		SCM055	



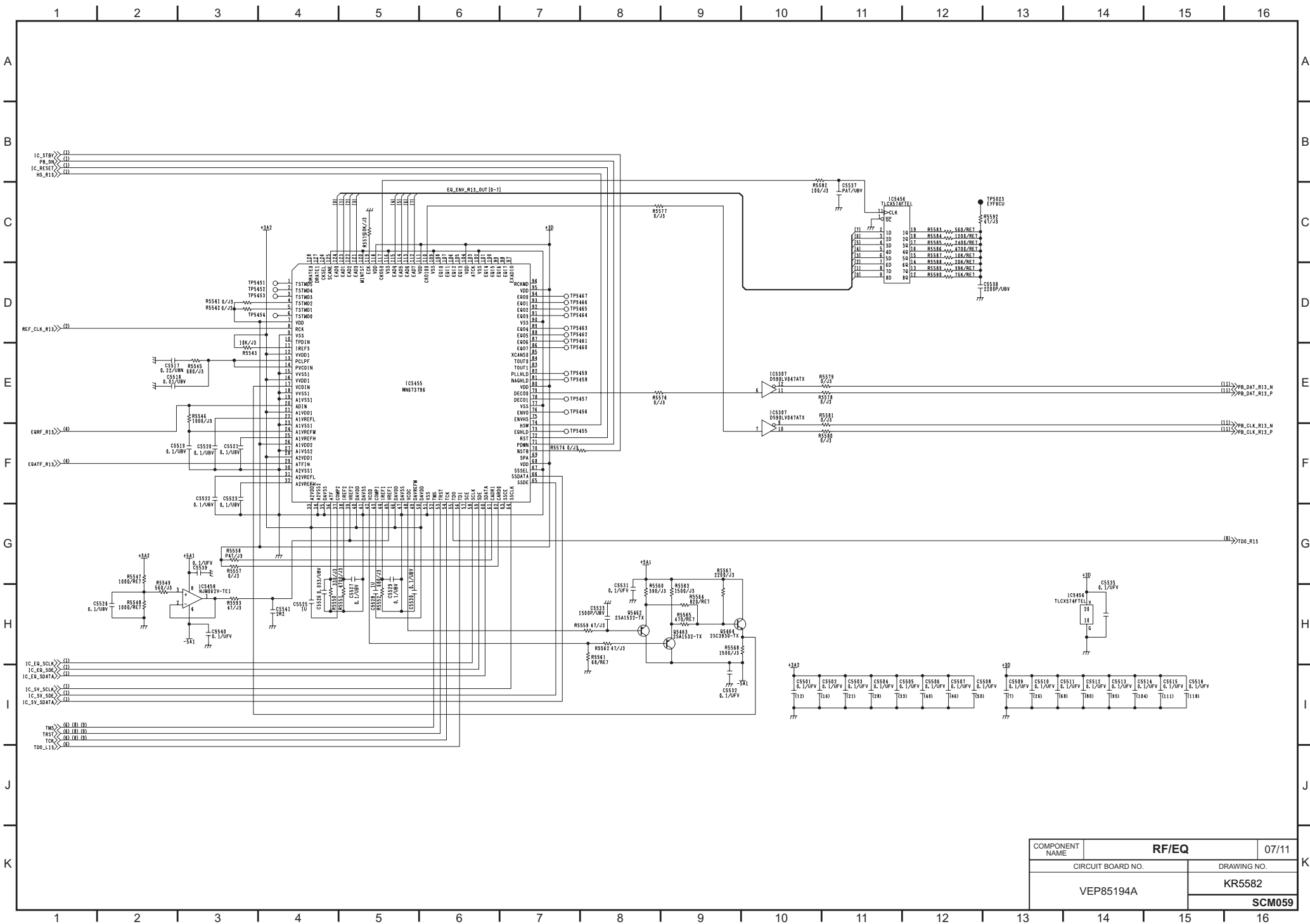
COMPONENT NAME	RF/EQ	04/11
CIRCUIT BOARD NO.		DRAWING NO.
VEP85194A		KR5582
		SCM056

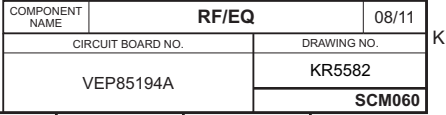


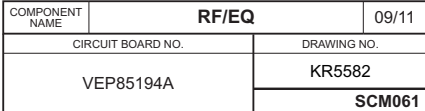
COMPONENT NAME	RF/EQ	05/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85194A	KR5582	
	SCM057	

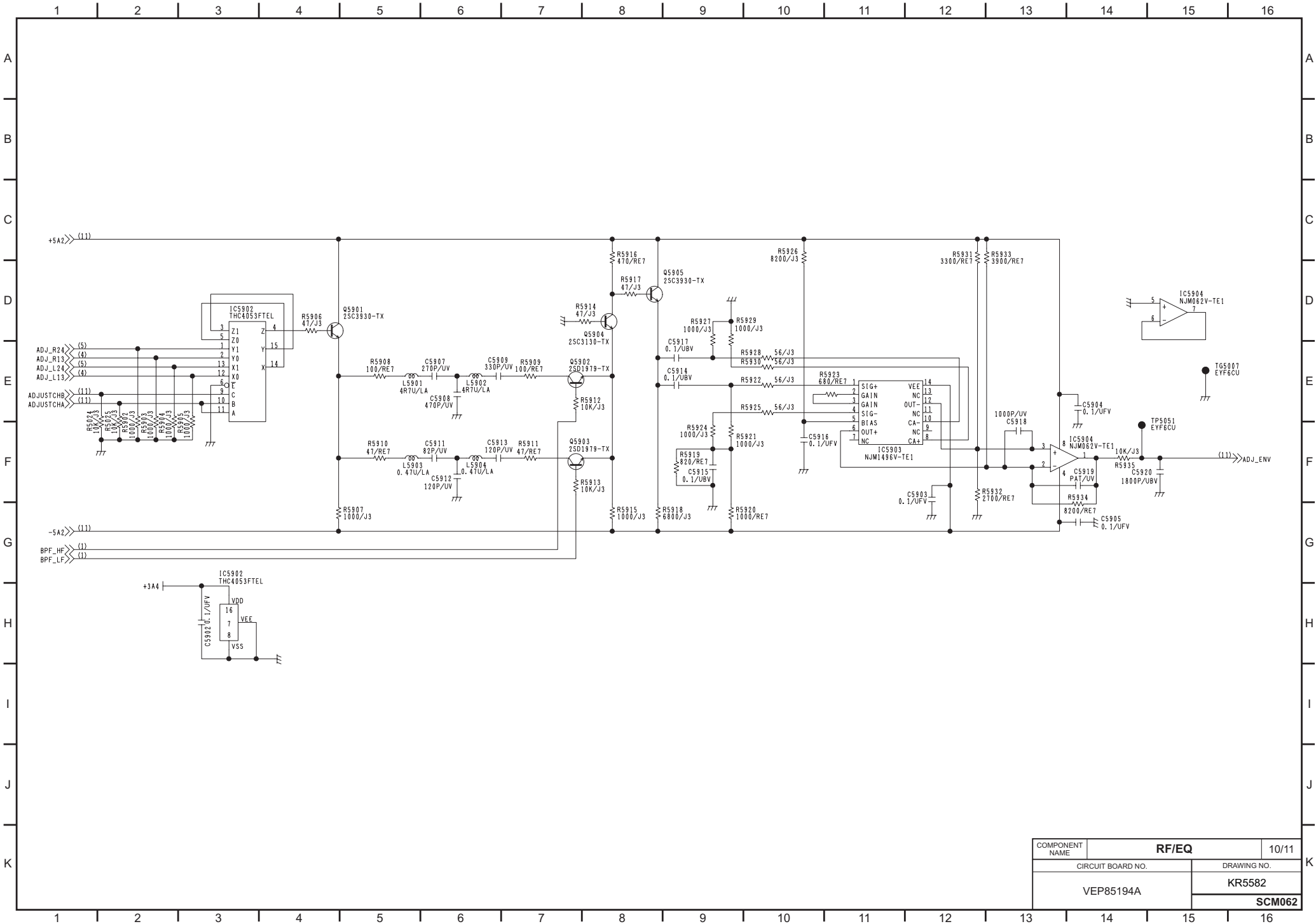


COMPONENT NAME	RF/EQ	06/11
CIRCUIT BOARD NO.		DRAWING NO.
VEP85194A		KR5582
		SCM058

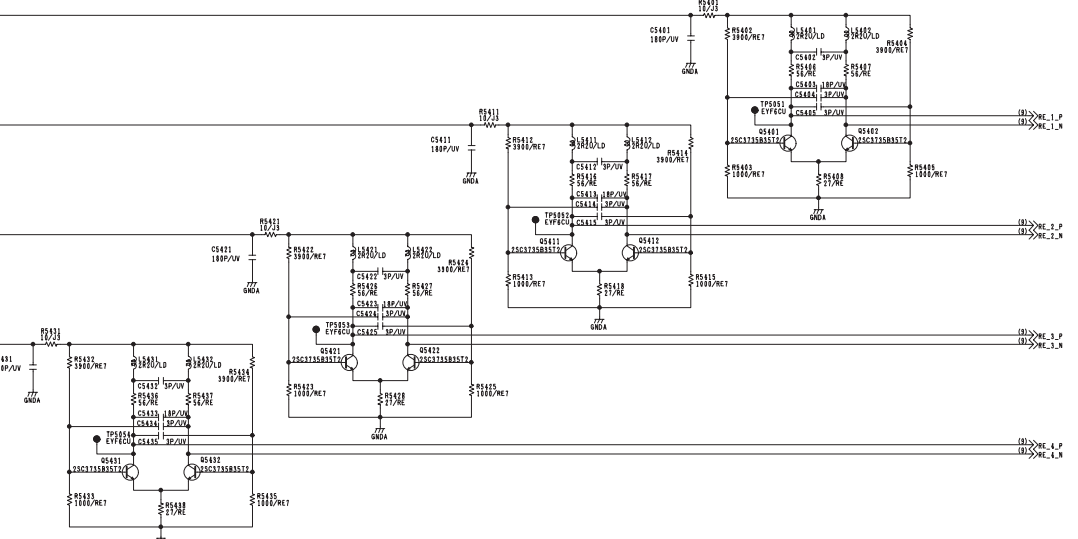




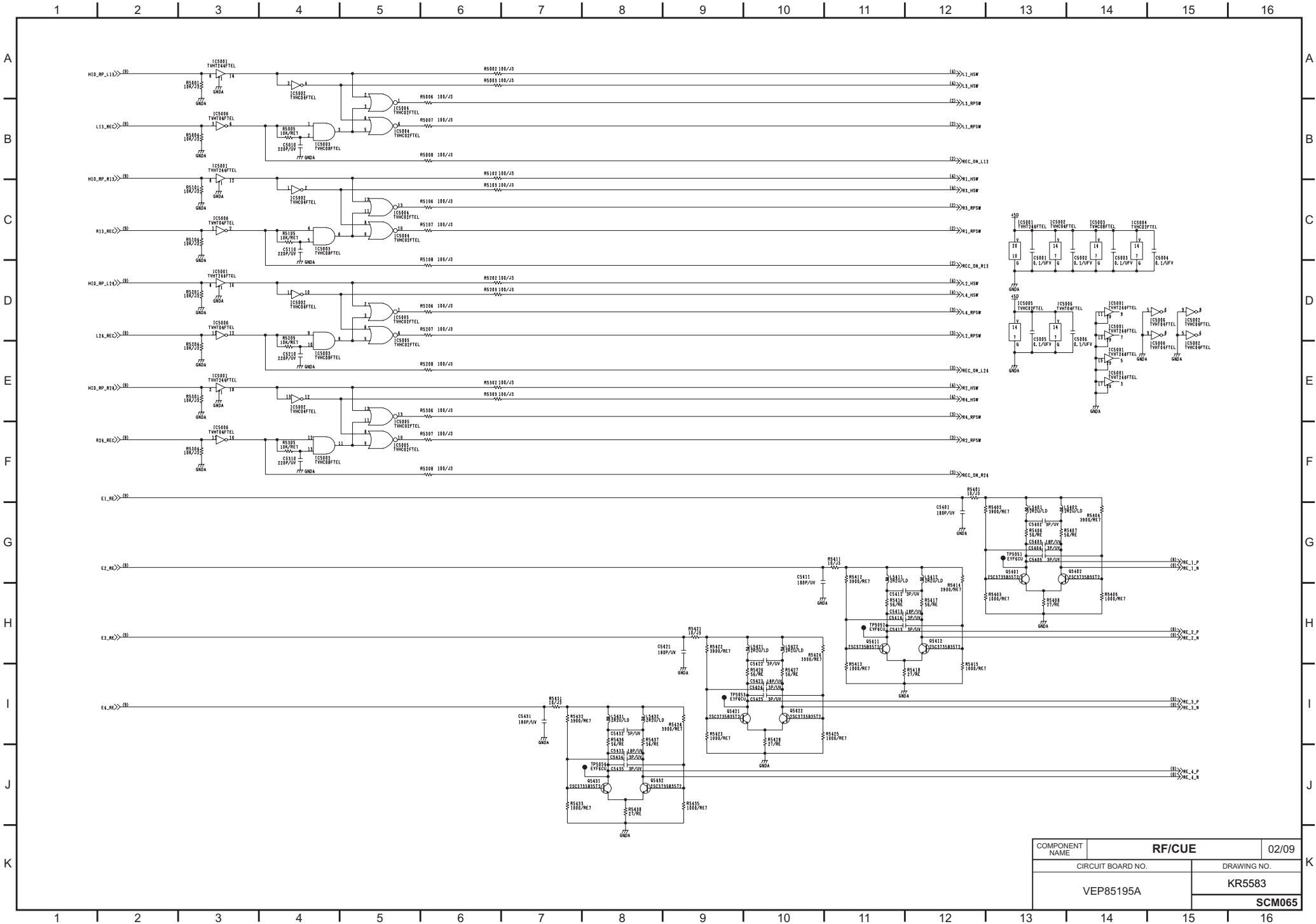


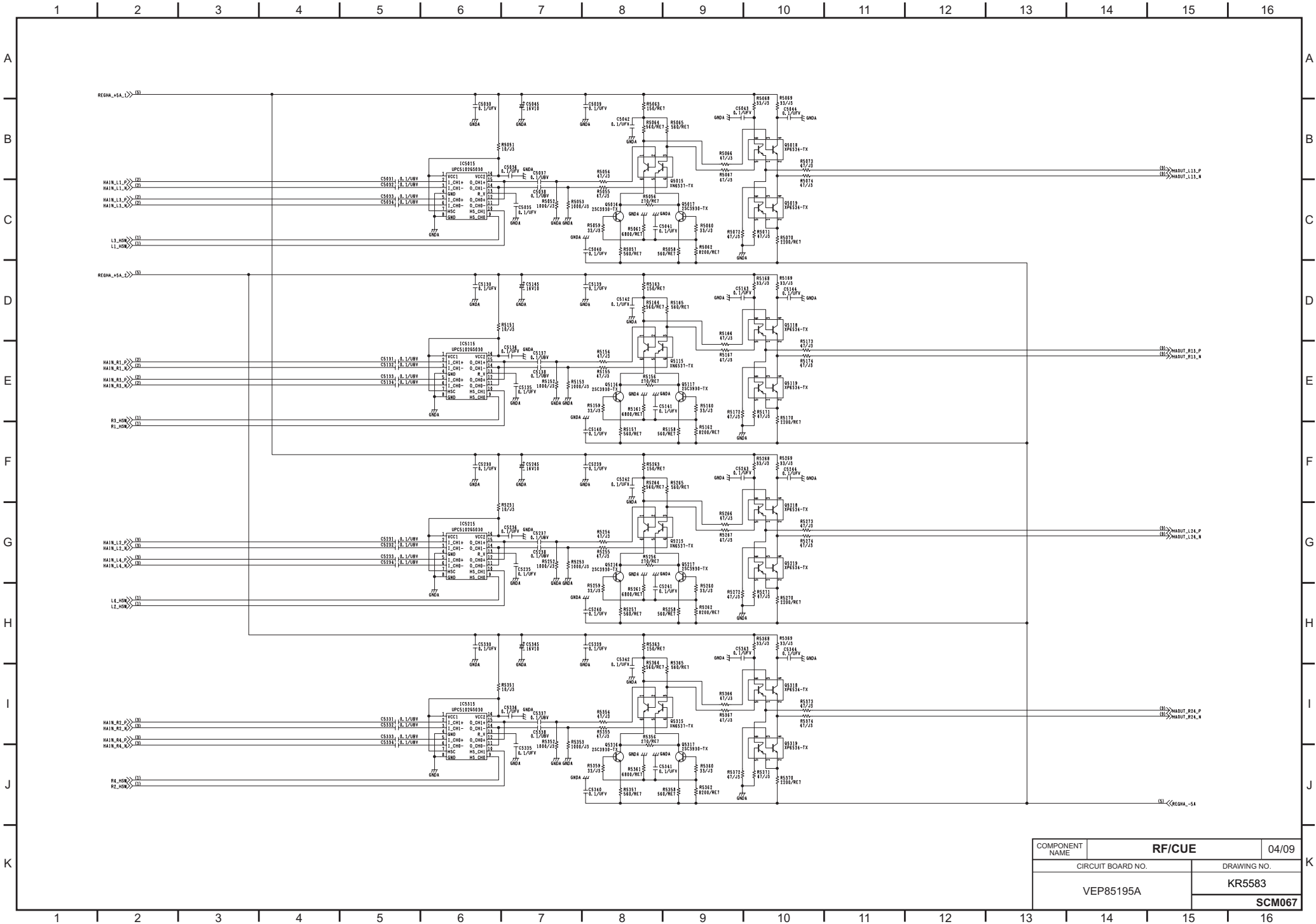


COMPONENT NAME	RF/EQ		10/11
	CIRCUIT BOARD NO.		DRAWING NO.
VEP85194A		KR5582	
		SCM062	

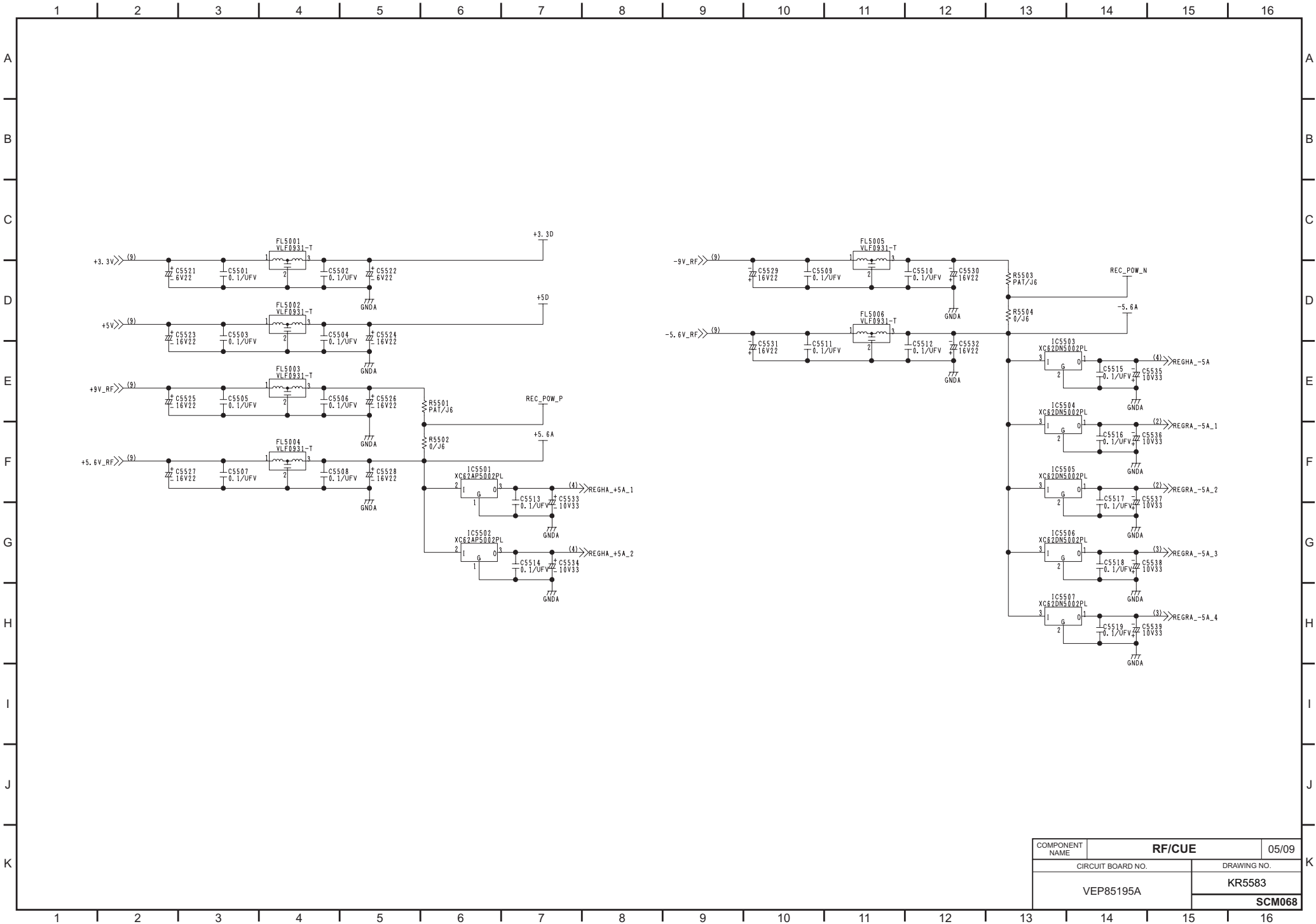


COMPONENT NAME	RF/CUE	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85195A	KR5583	
	SCM064	

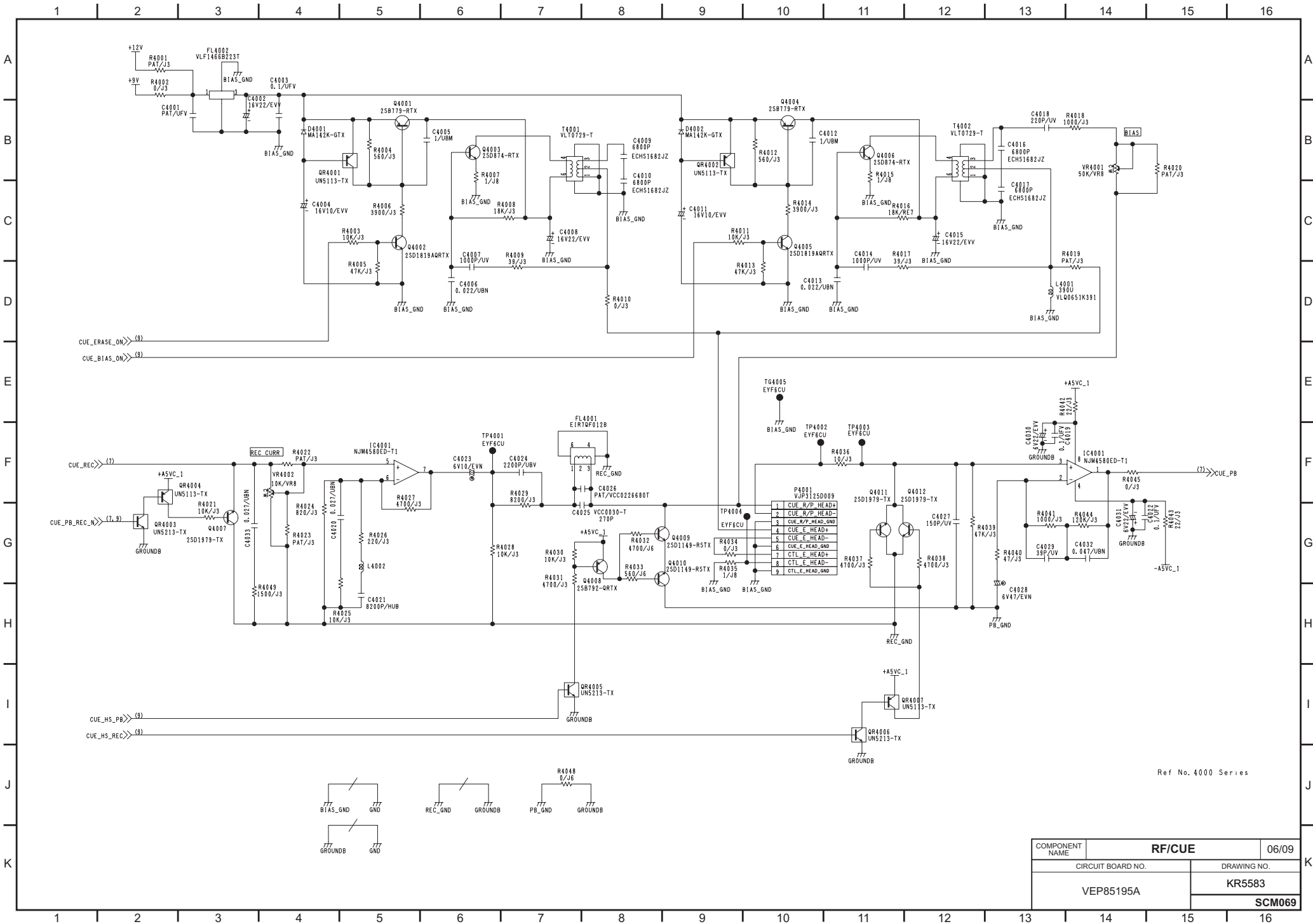


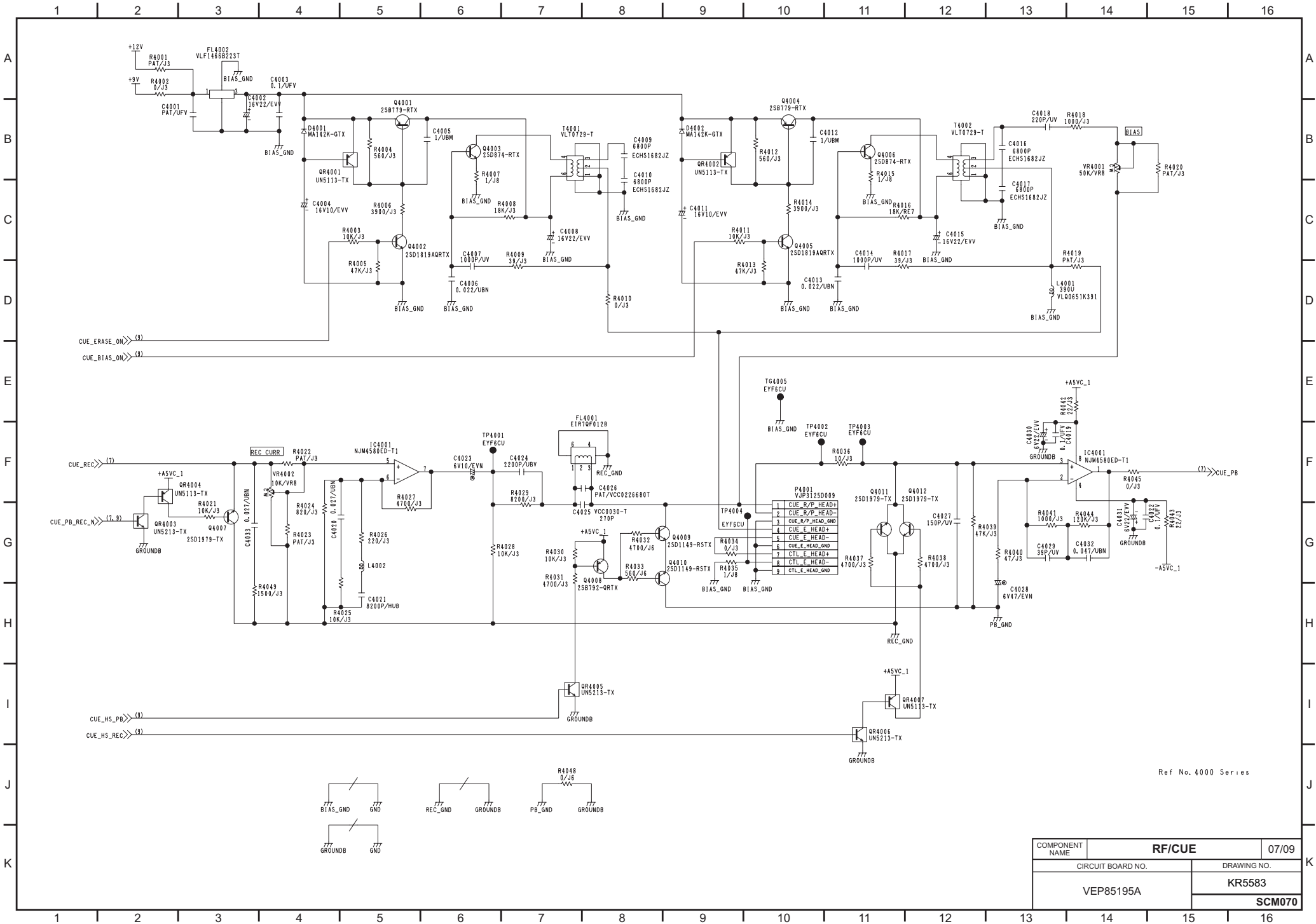


COMPONENT NAME	RF/CUE		04/09
	CIRCUIT BOARD NO.		DRAWING NO.
VEP85195A		KR5583	
		SCM067	



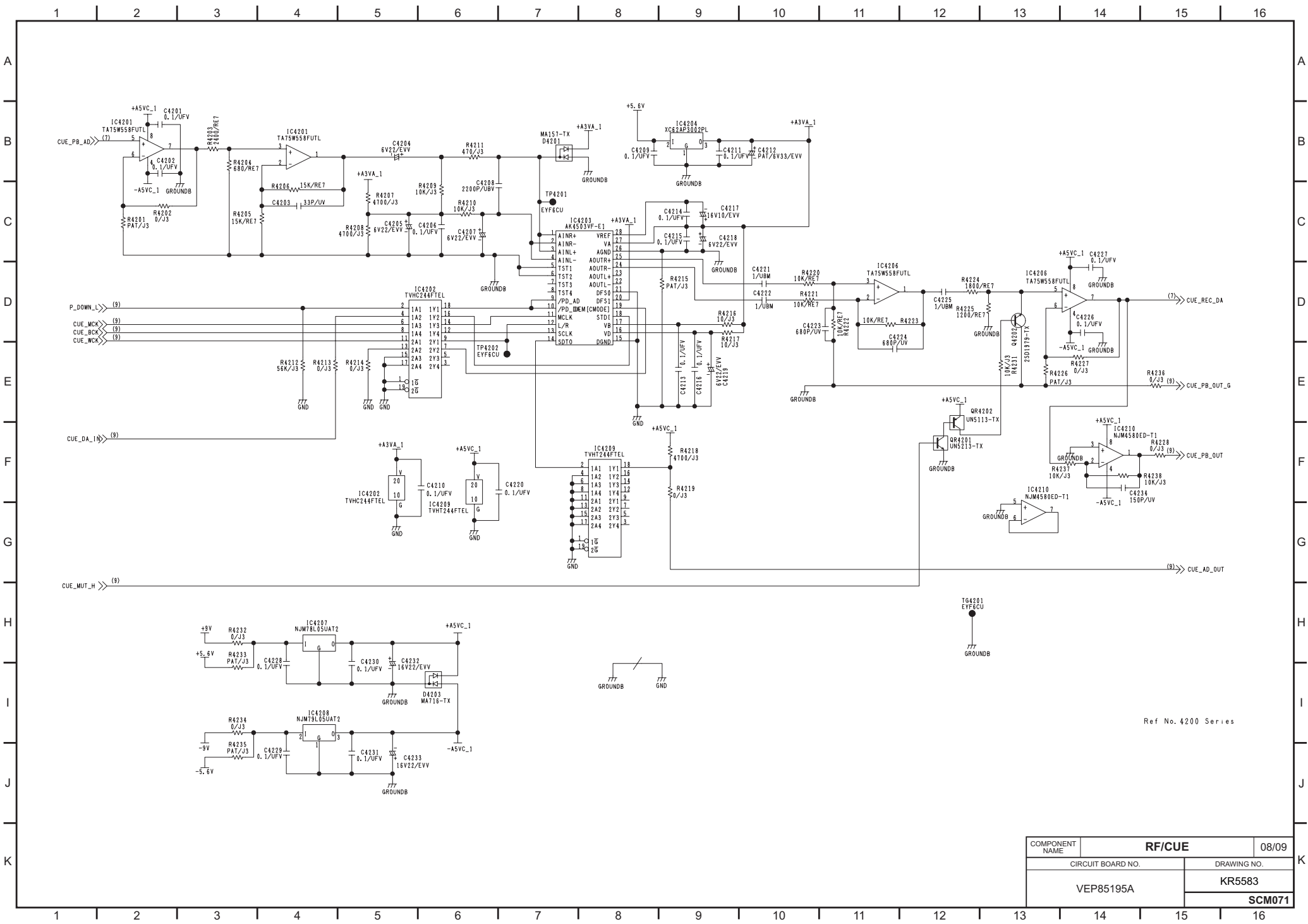
COMPONENT NAME	RF/CUE	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85195A	KR5583	
	SCM068	



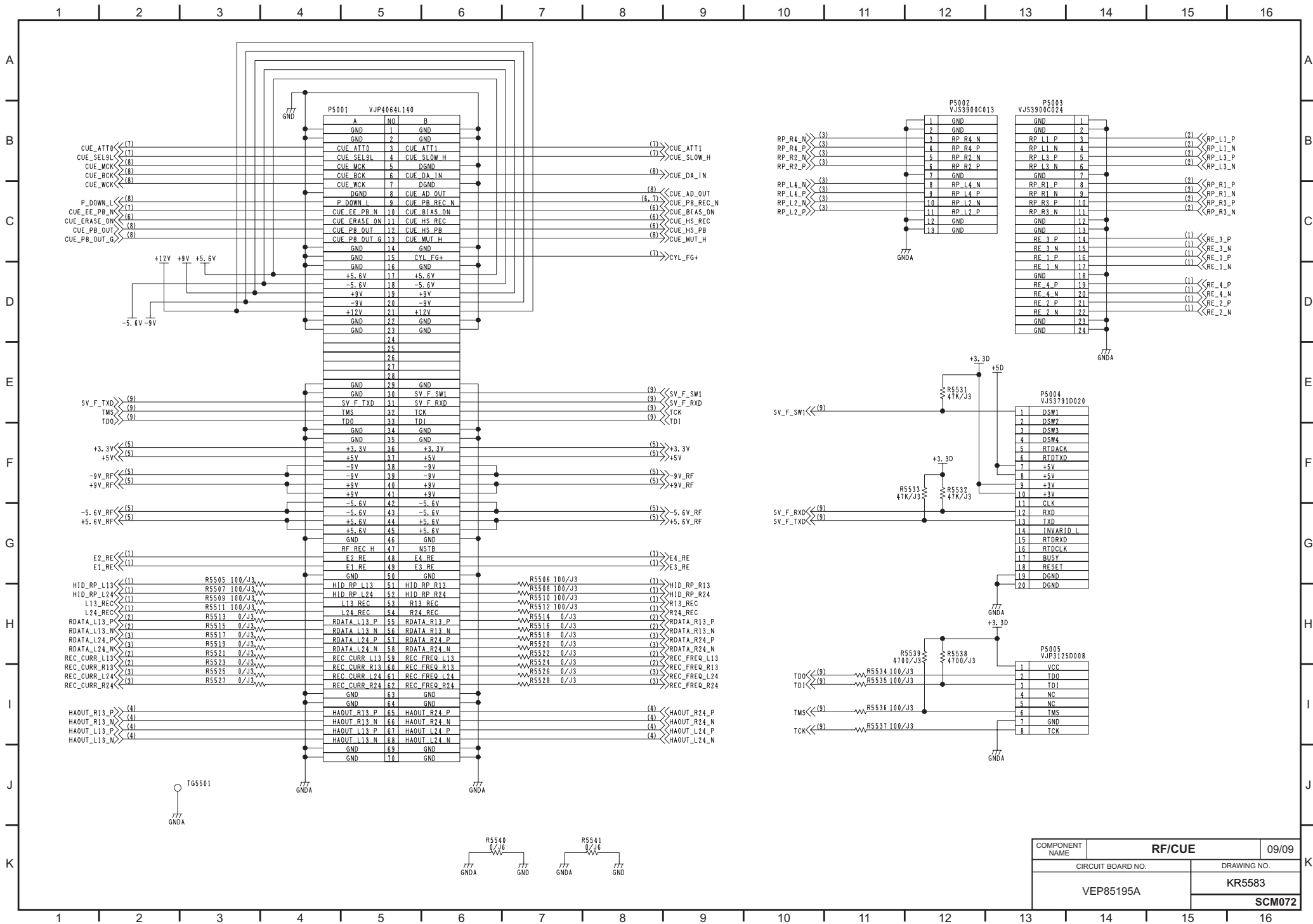


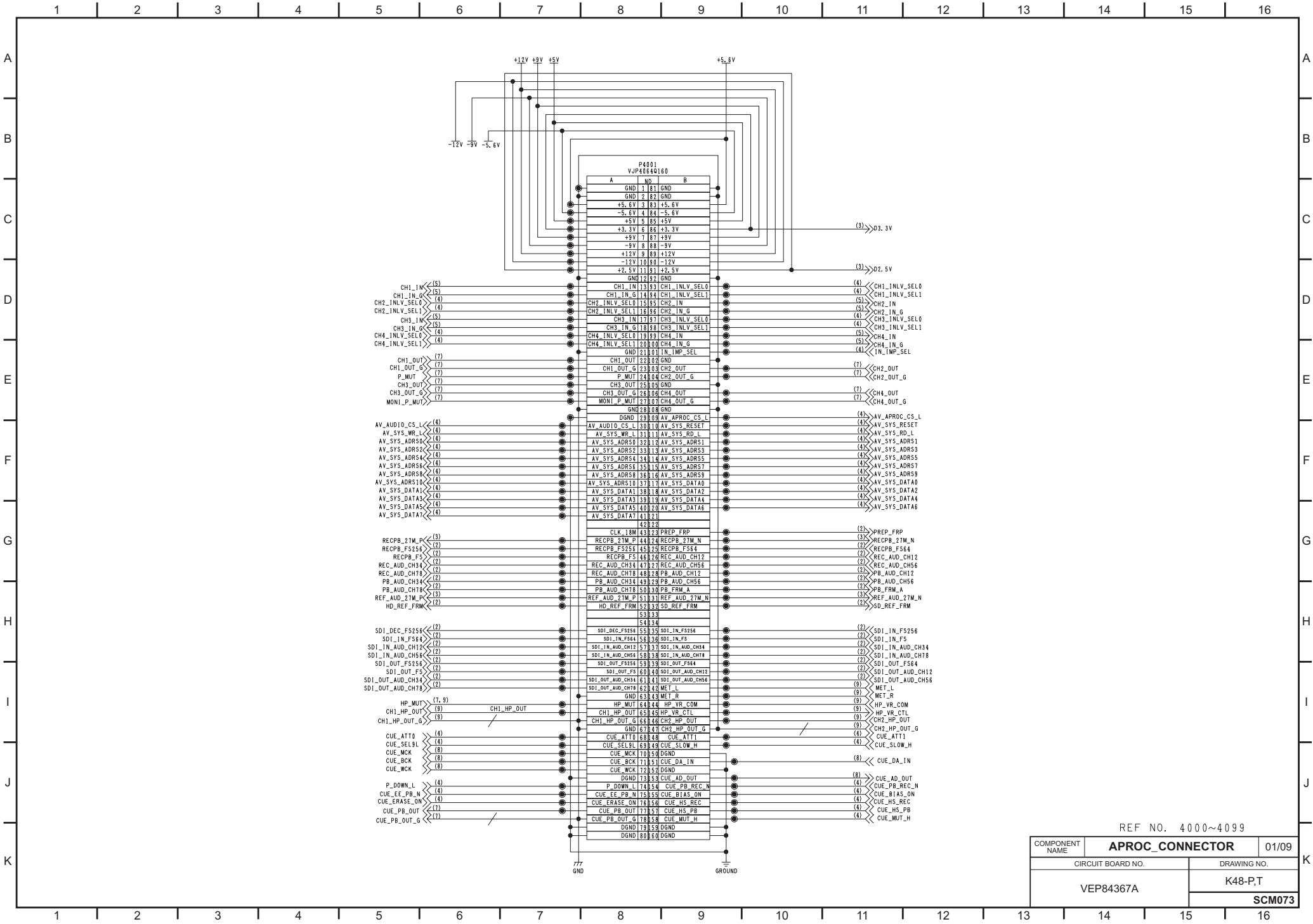
Ref No. 4000 Series

COMPONENT NAME	RF/CUE	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP85195A		KR5583
		SCM070



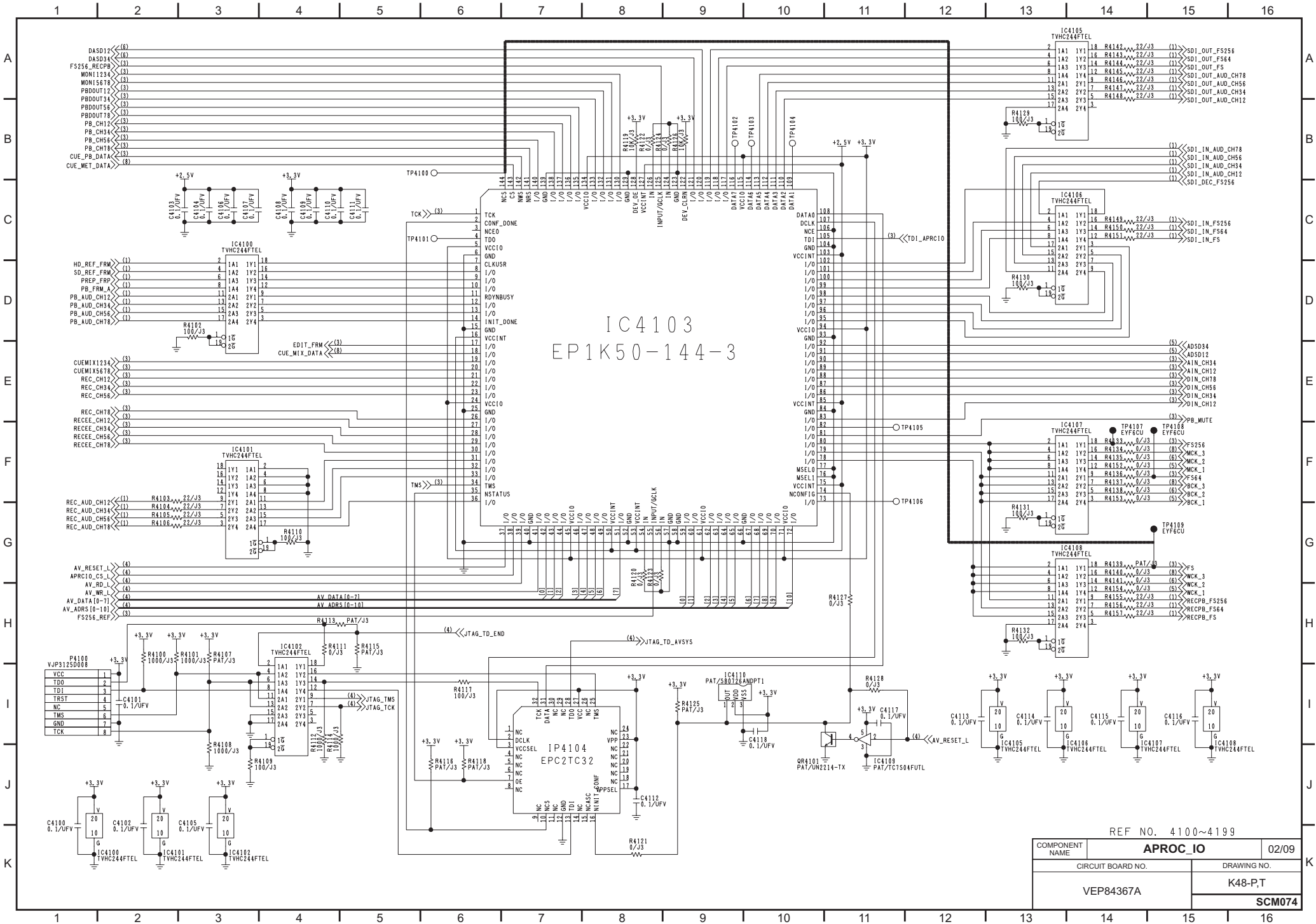
COMPONENT NAME	RF/CUE	08/09
CIRCUIT BOARD NO.	VEP85195A	DRAWING NO.
		KR5583
		SCM071



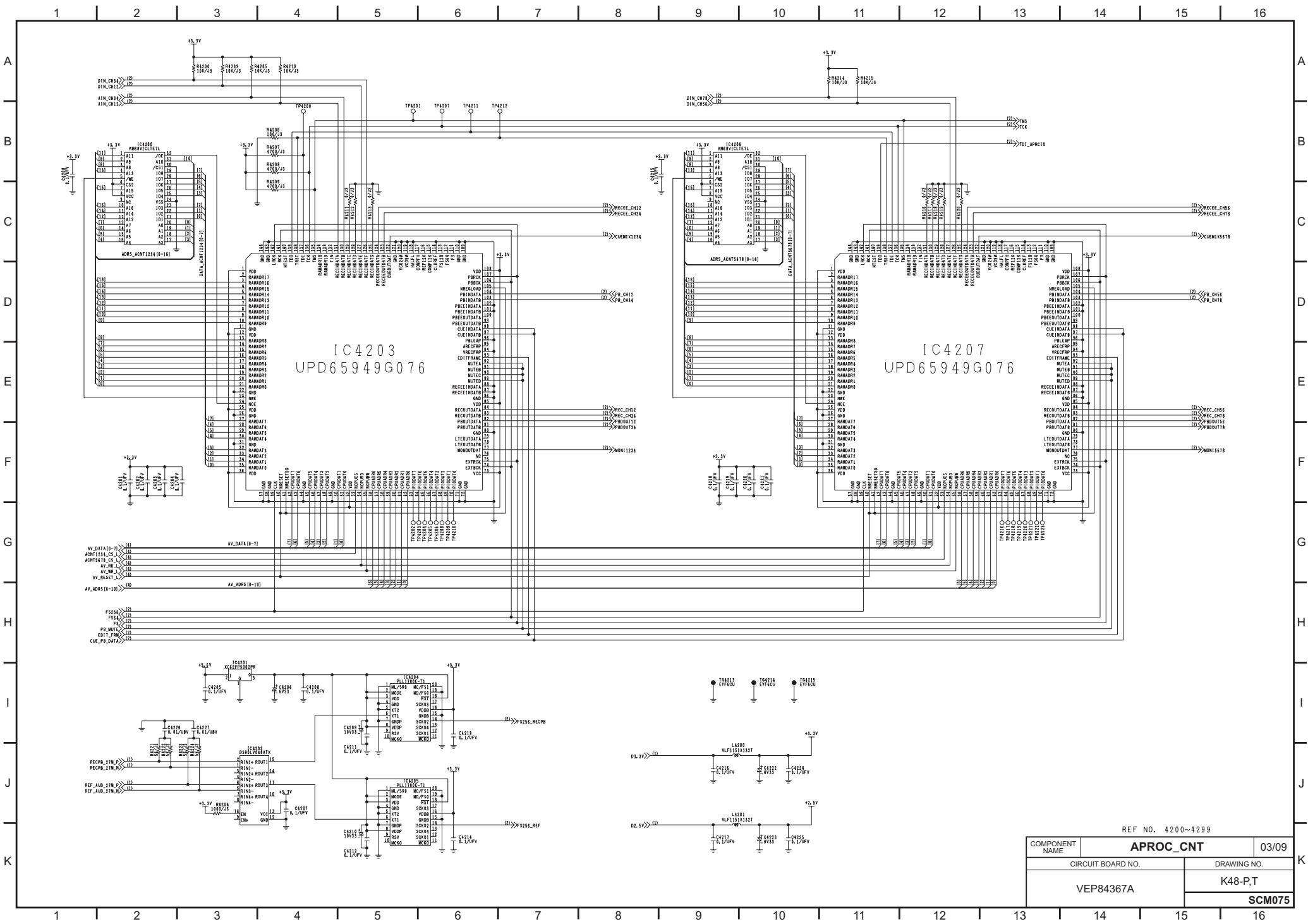


REF NO. 4000~4099

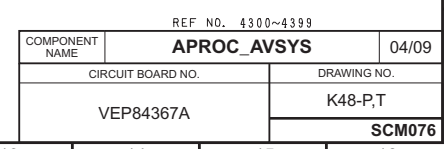
COMPONENT NAME	APROC CONNECTOR		01/09
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84367A		K48-P,T	
		SCM073	

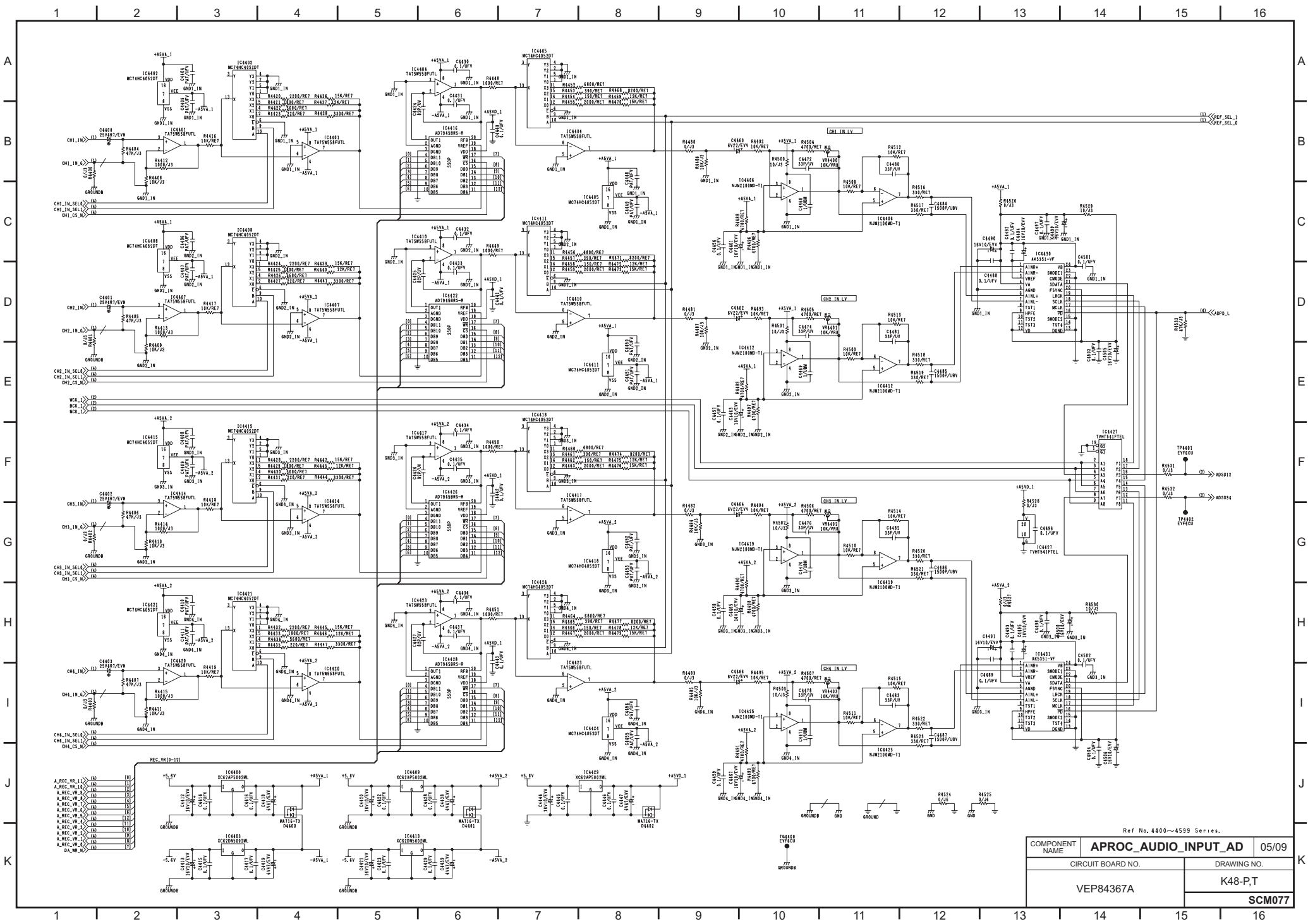


REF NO. 4100~4199		
COMPONENT NAME	APROC_IO	02/09
CIRCUIT BOARD NO.	VEP84367A	DRAWING NO.
		K48-P,T
SCM074		

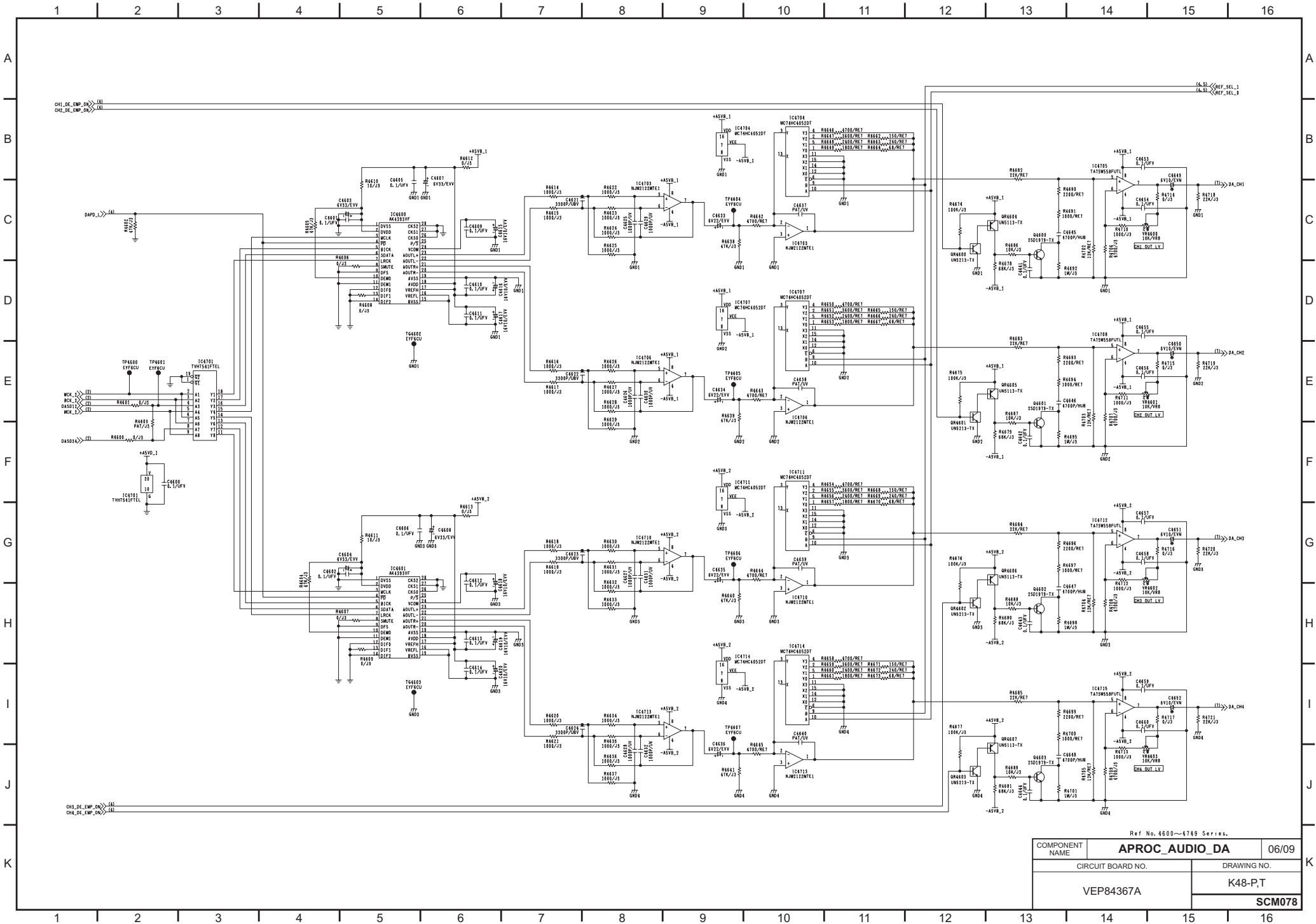


REF NO. 4200~4299		
COMPONENT NAME	APROC_CNT	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84367A		K48-P,T
SCM075		

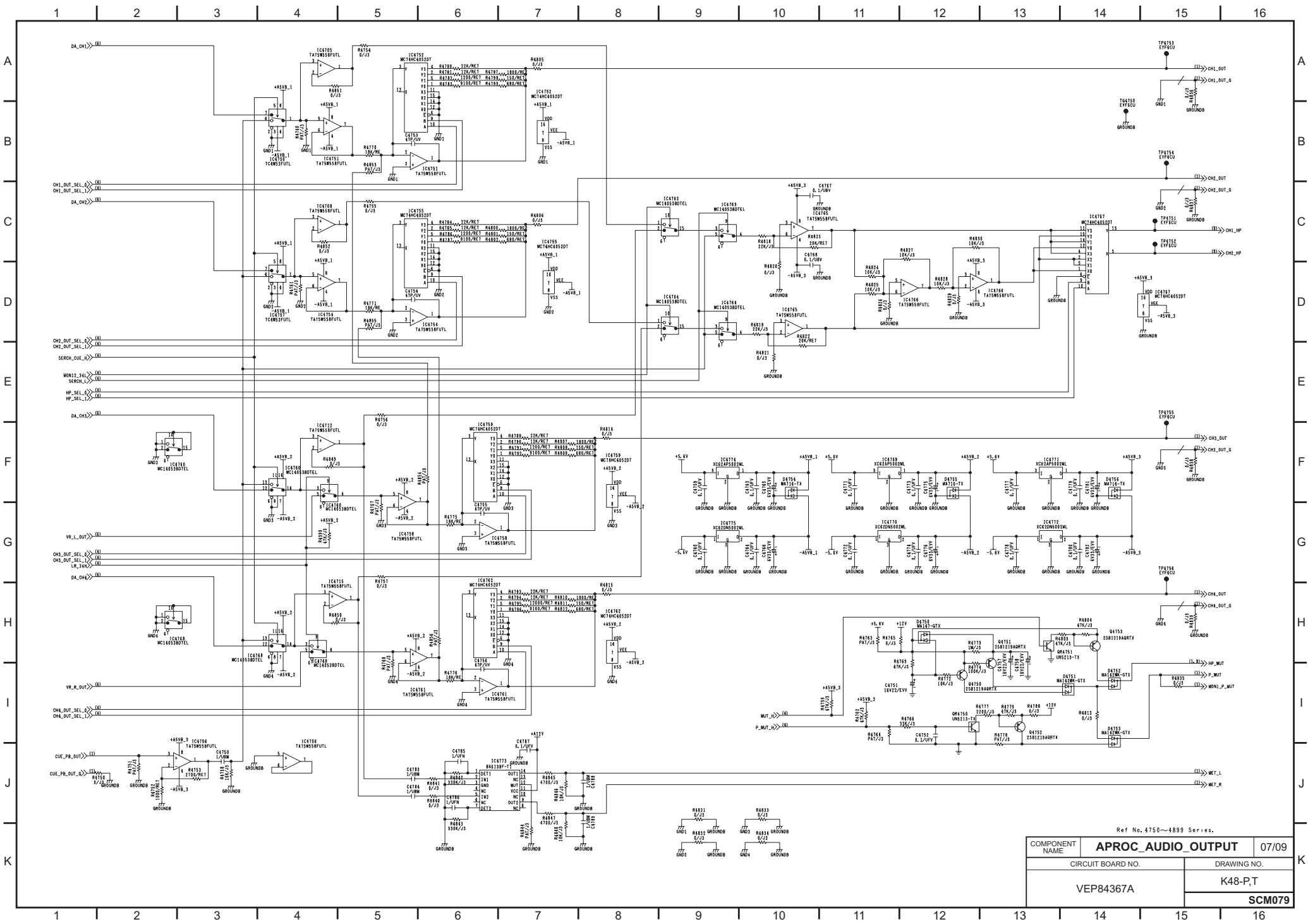




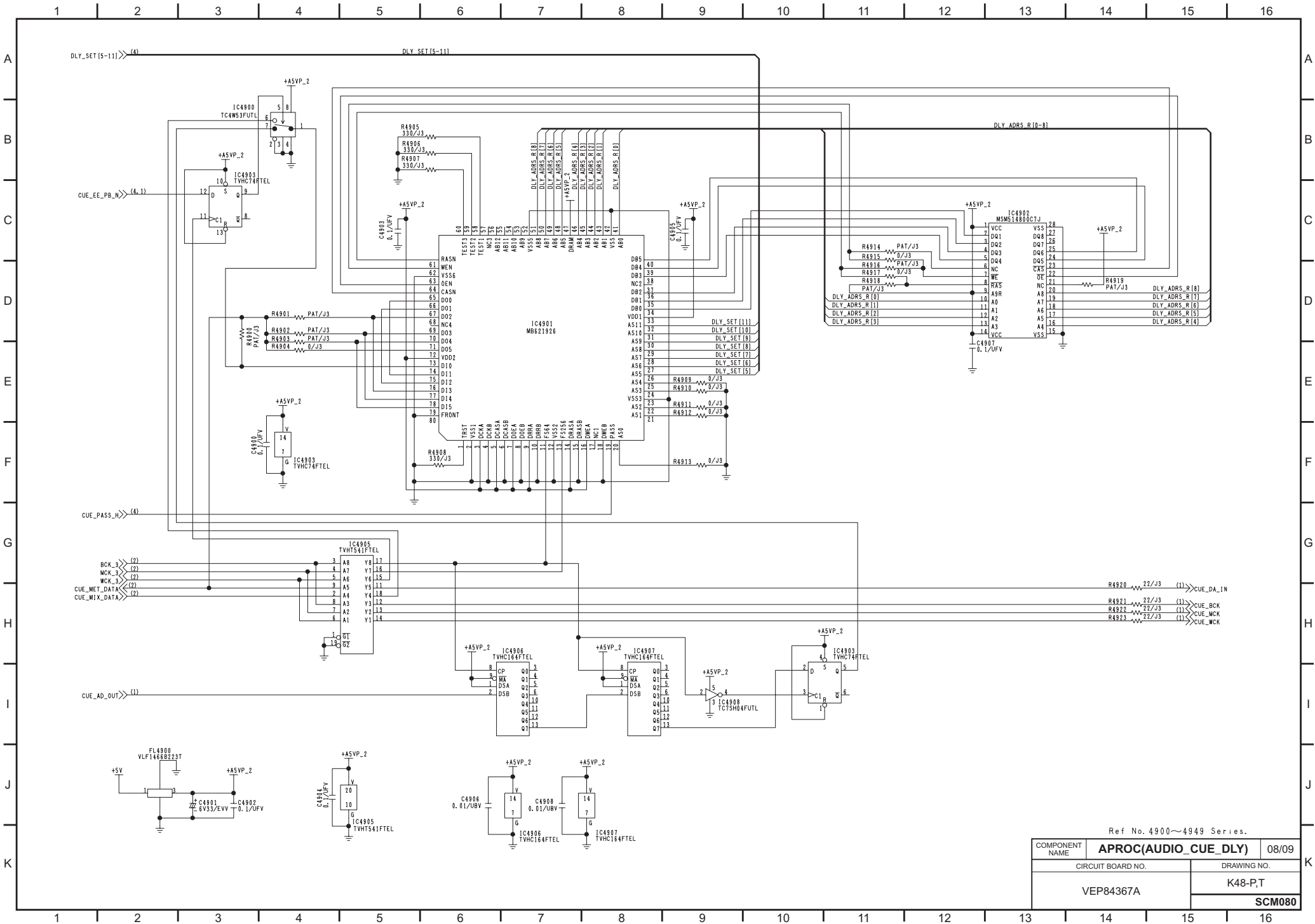
COMPONENT NAME		APROC_AUDIO_INPUT_AD	05/09
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84367A		K48-P,T	
		SCM077	



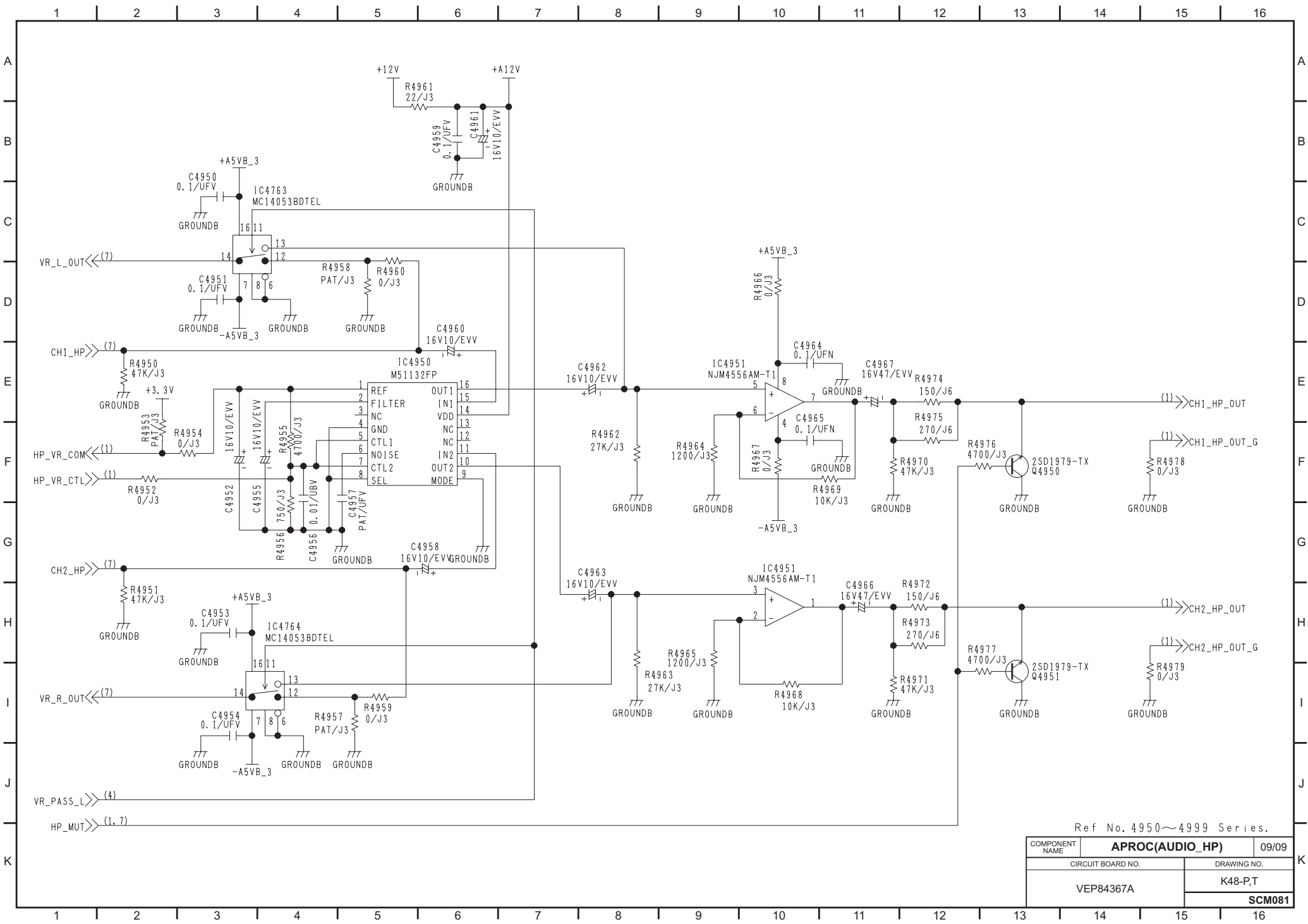
Ref No. 4600-4749 Series.		
COMPONENT NAME	APROC_AUDIO_DA	06/09
CIRCUIT BOARD NO.	VEP84367A	DRAWING NO.
		K48-P,T
		SCM078



Ref No. 4750~4899 Series.		
COMPONENT NAME	APROC_AUDIO_OUTPUT	07/09
CIRCUIT BOARD NO.	VEP84367A	DRAWING NO.
		K48-P,T
		SCM079

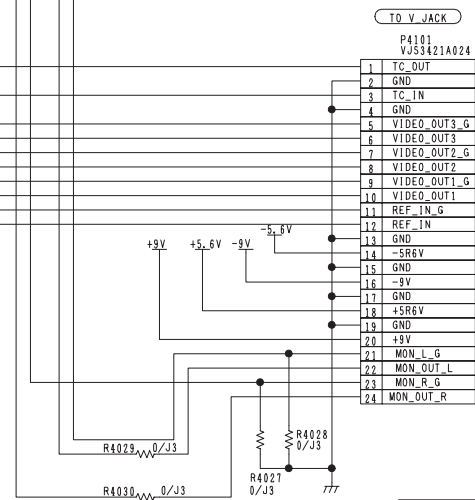
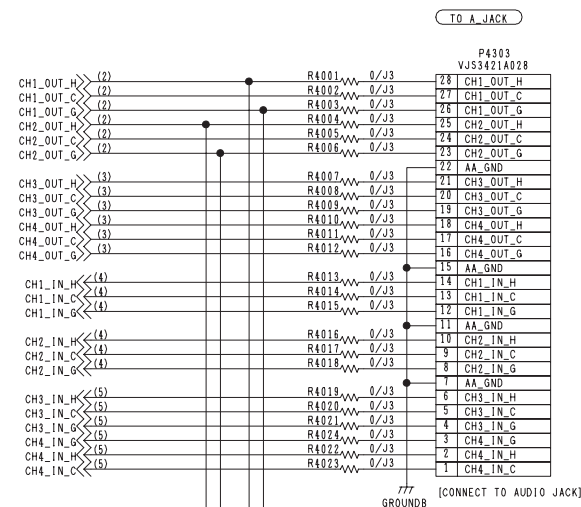
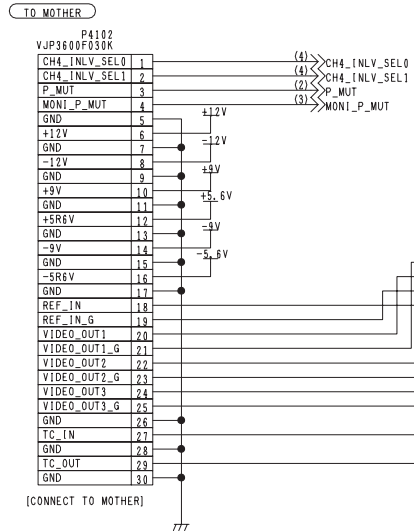
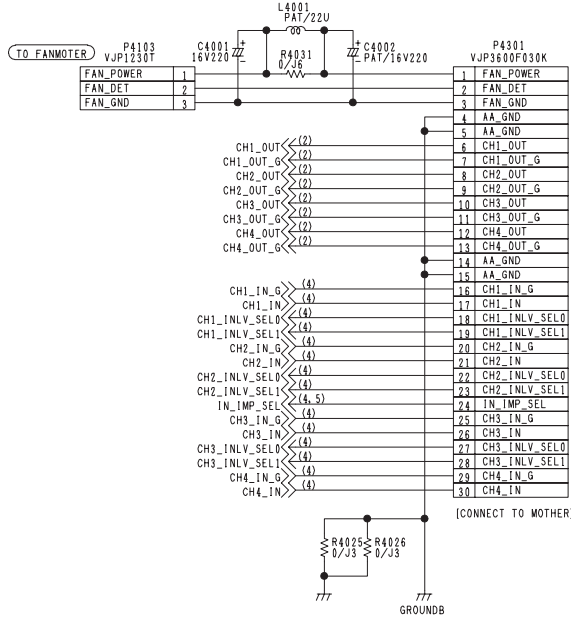


Ref No. 4900~4949 Series.		
COMPONENT NAME	APROC(AUDIO_CUE_DLY)	08/09
CIRCUIT BOARD NO.	VEP84367A	DRAWING NO.
		K48-P,T
		SCM080



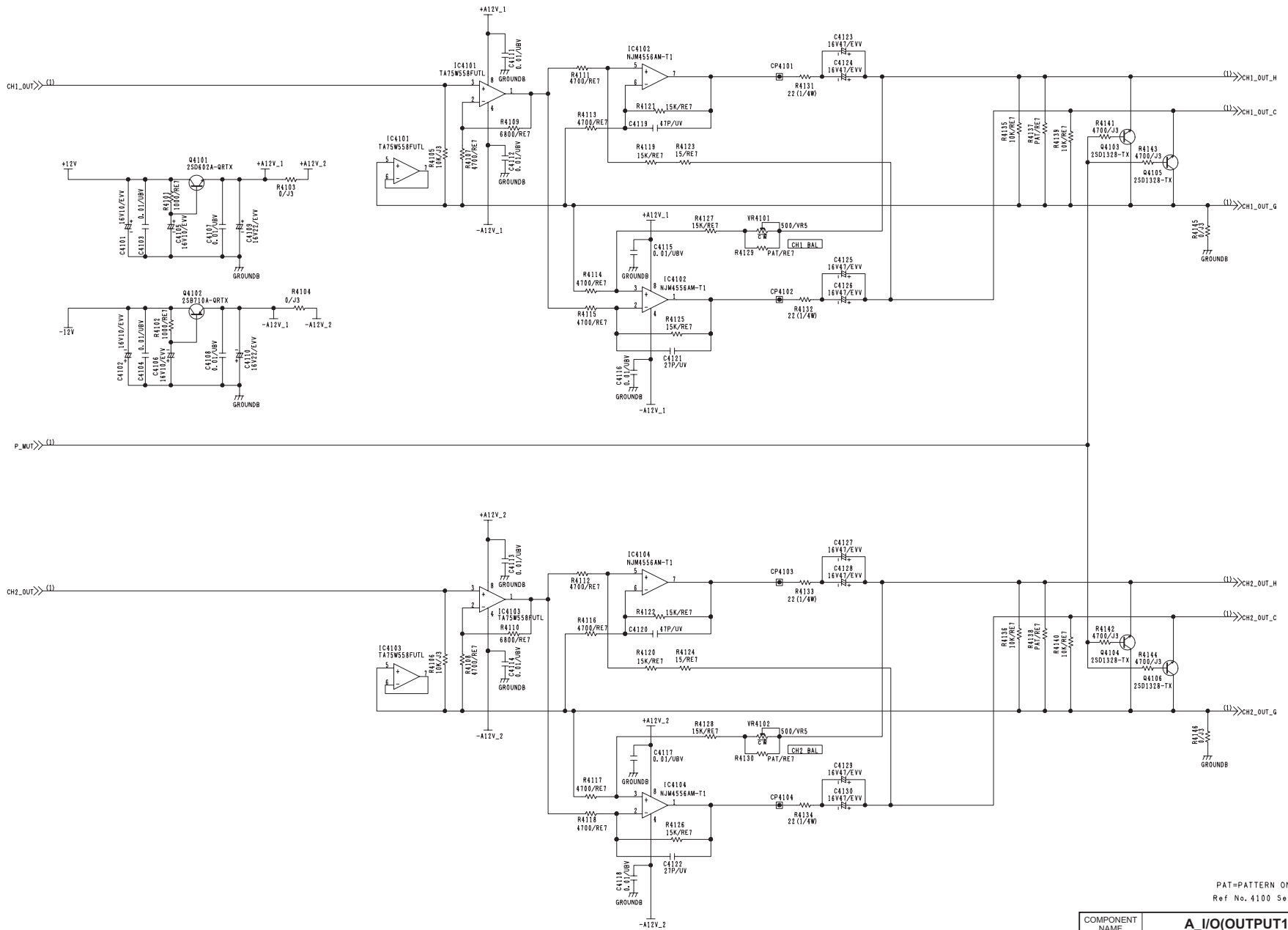
Ref No. 4950~4999 Series.

COMPONENT NAME	APROC(AUDIO_HP)	09/09
CIRCUIT BOARD NO.	VEP84367A	DRAWING NO.
		K48-P,T
		SCM081



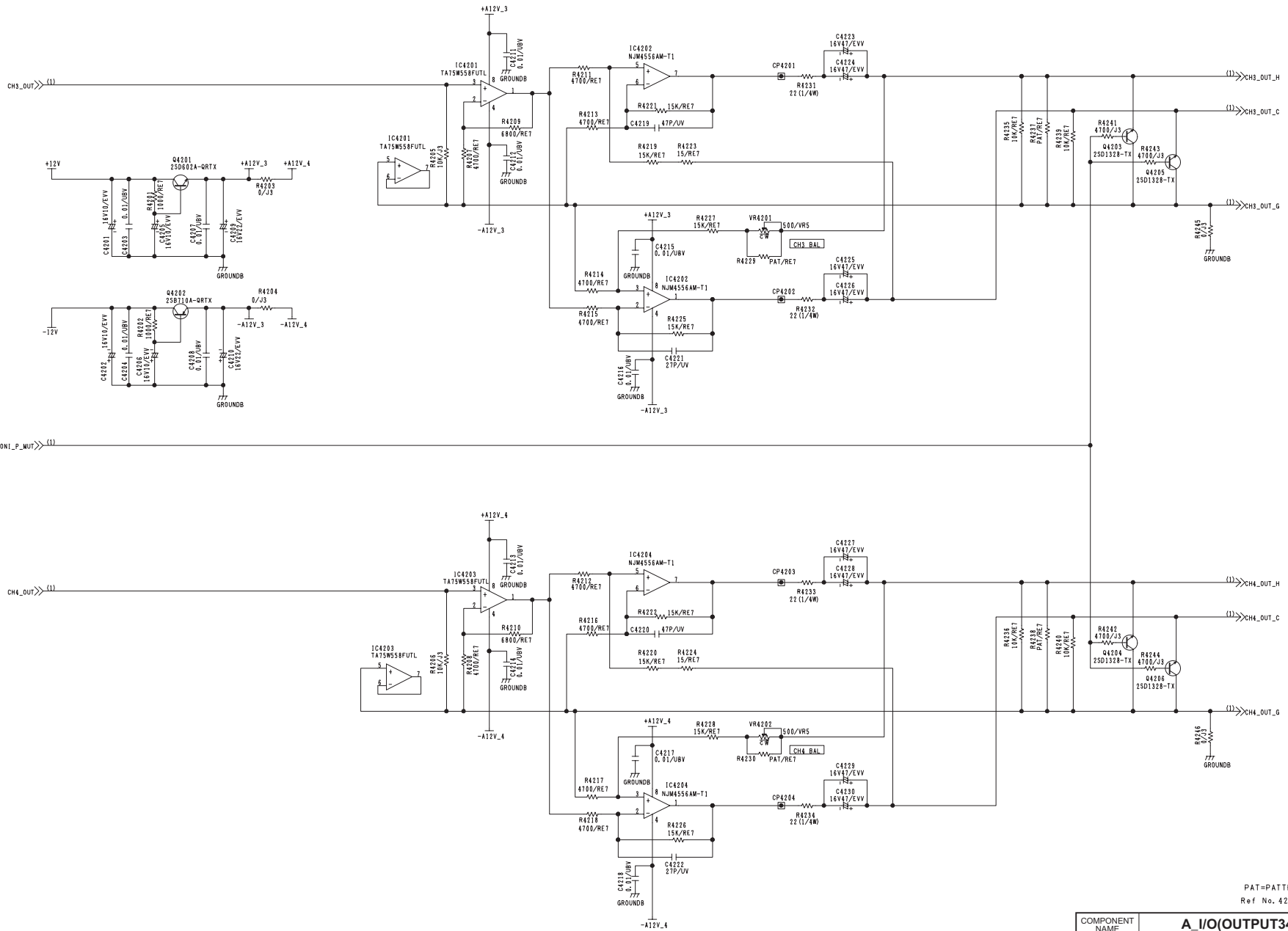
COMPONENT NAME		A I/O(CONNECT)		01/05
CIRCUIT BOARD NO.		DRAWING NO.		
VEP84368A		KR4J94		
		SCM082		

Ref No.4000 Series.



PAT=PATTERN ONLY
Ref No. 4100 Series.

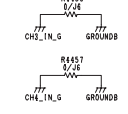
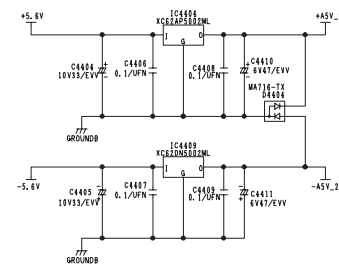
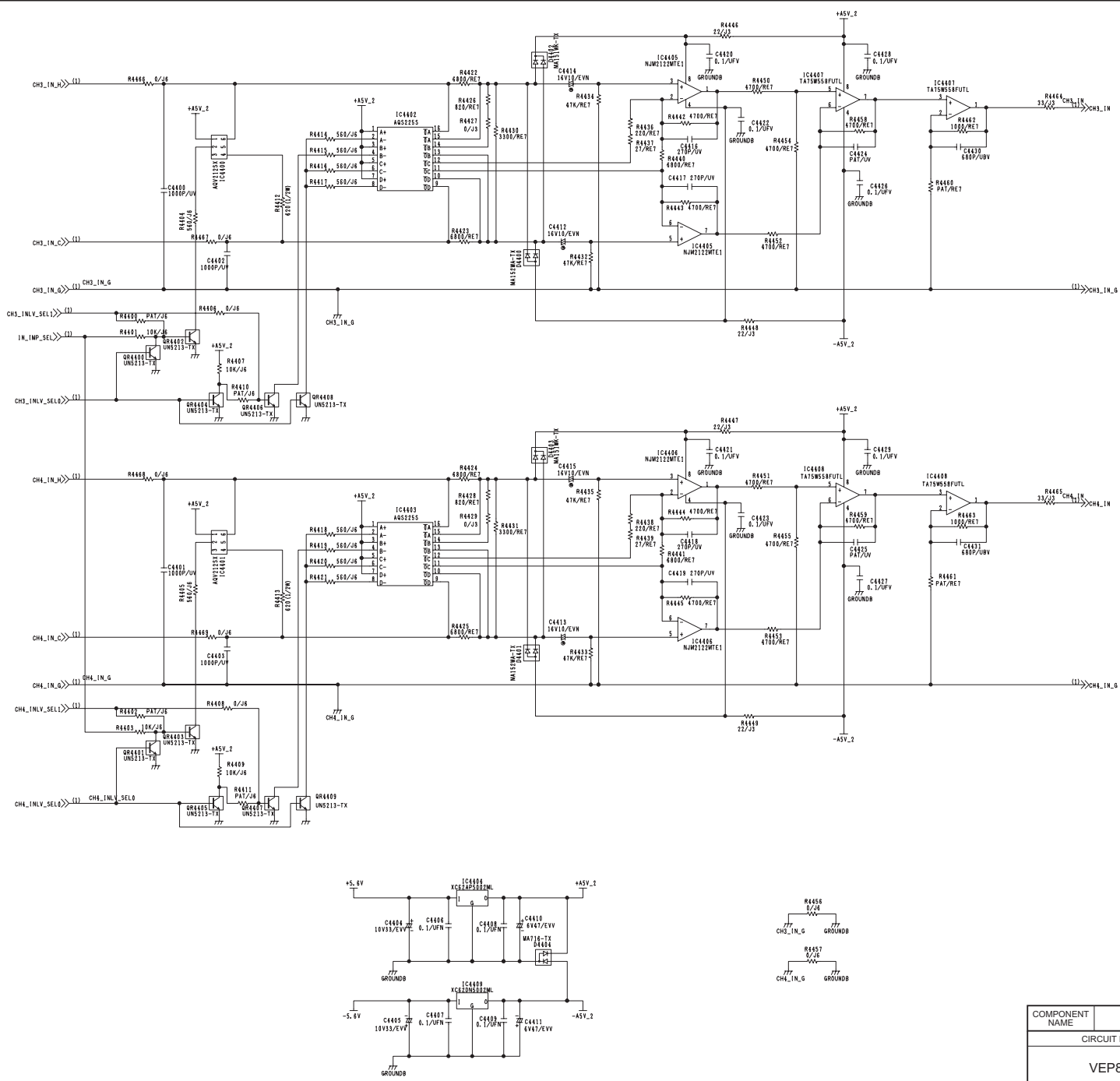
COMPONENT NAME	A_I/O(OUTPUT12)		02/05
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84368A		KR4J94	
		SCM083	



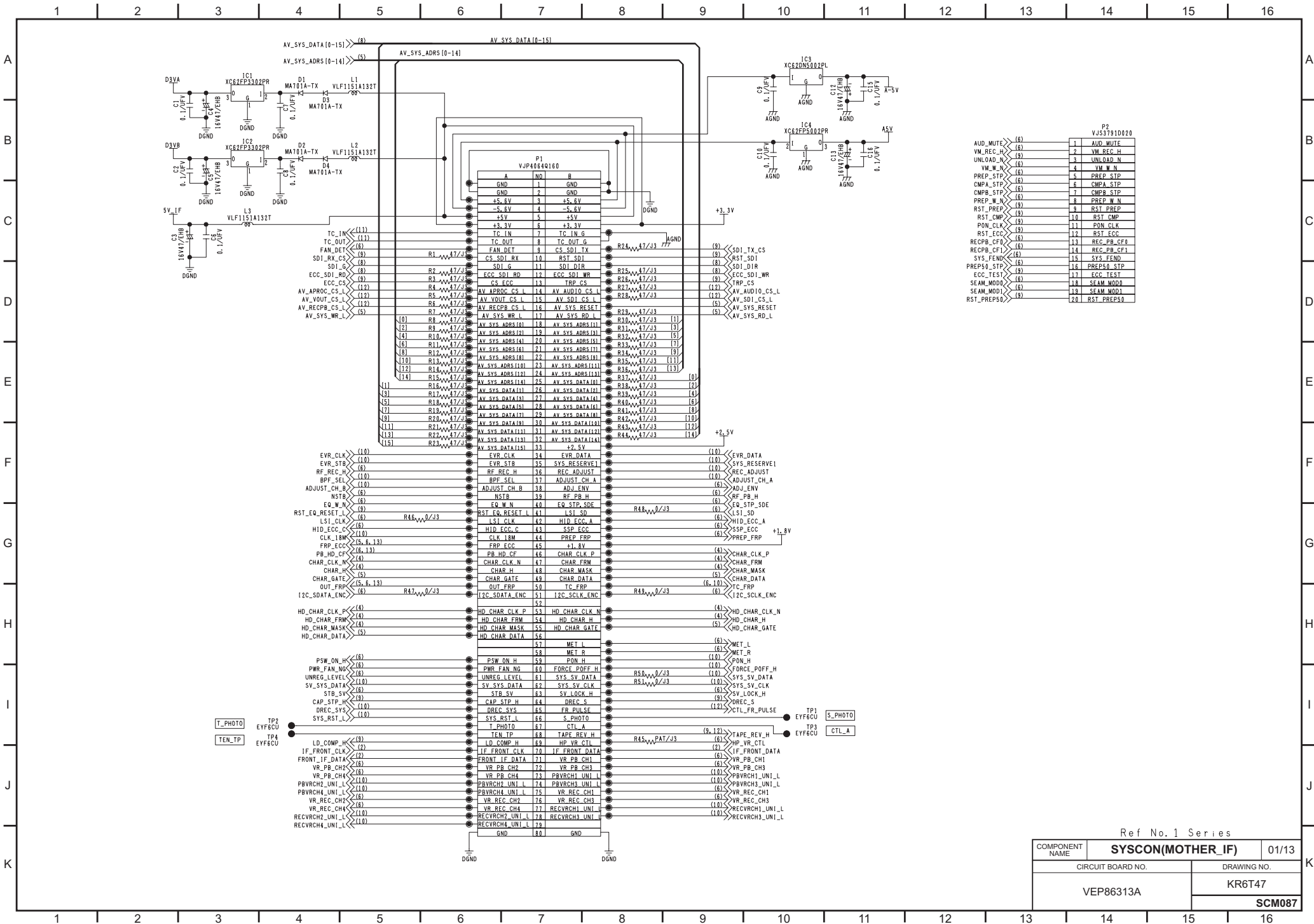
PAT=PATTERN ONLY
Ref No. 4200 Series.

COMPONENT NAME	A_I/O(OUTPUT34)		03/05
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84368A		KR4J94	
		SCM084	

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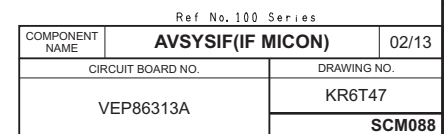


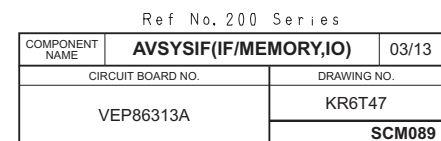
Ref No. 4400 Series.		
COMPONENT NAME	A_I/Q(INPUT34)	05/05
CIRCUIT BOARD NO.	VEP84368A	DRAWING NO. KR4J94
SCM086		

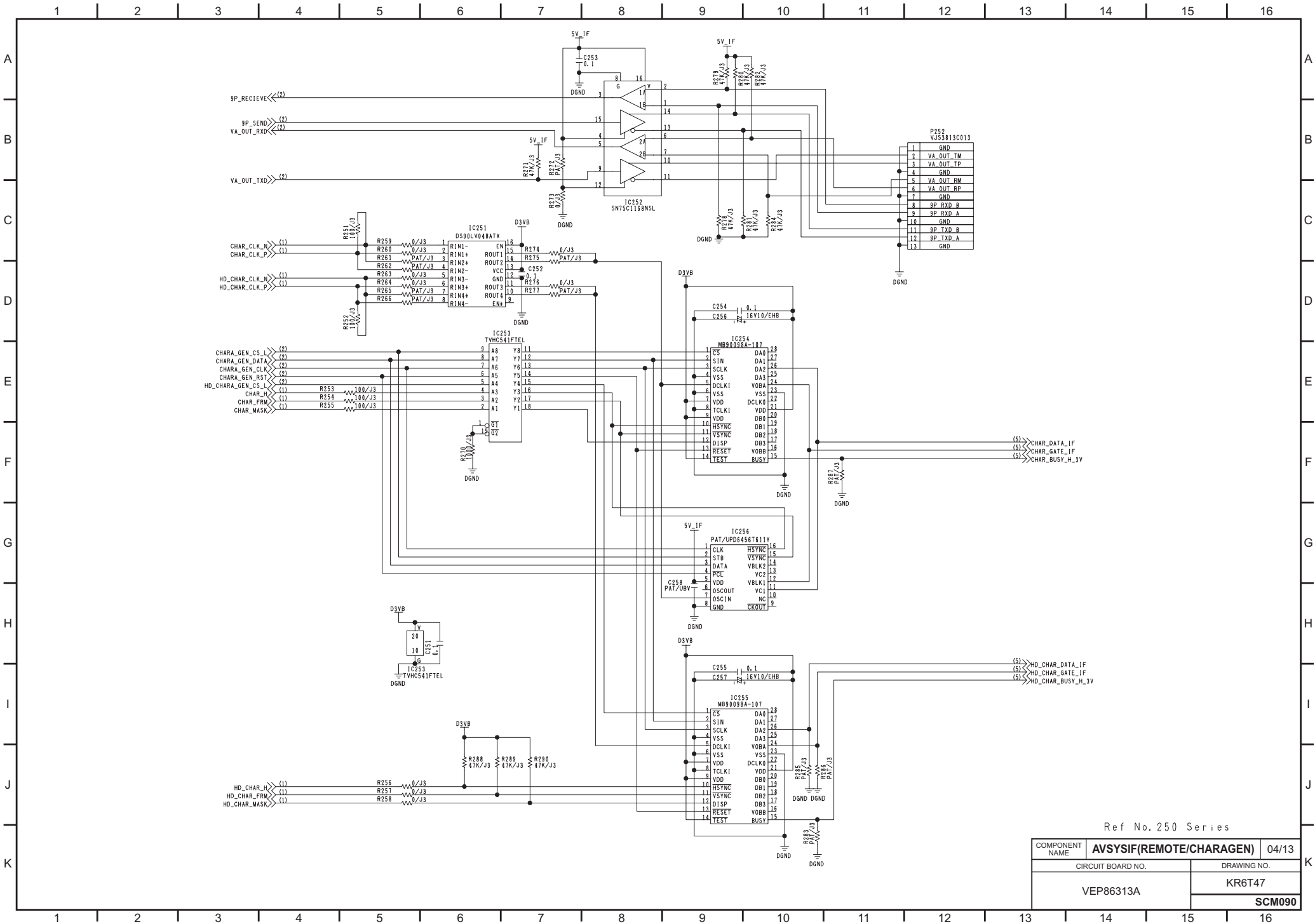


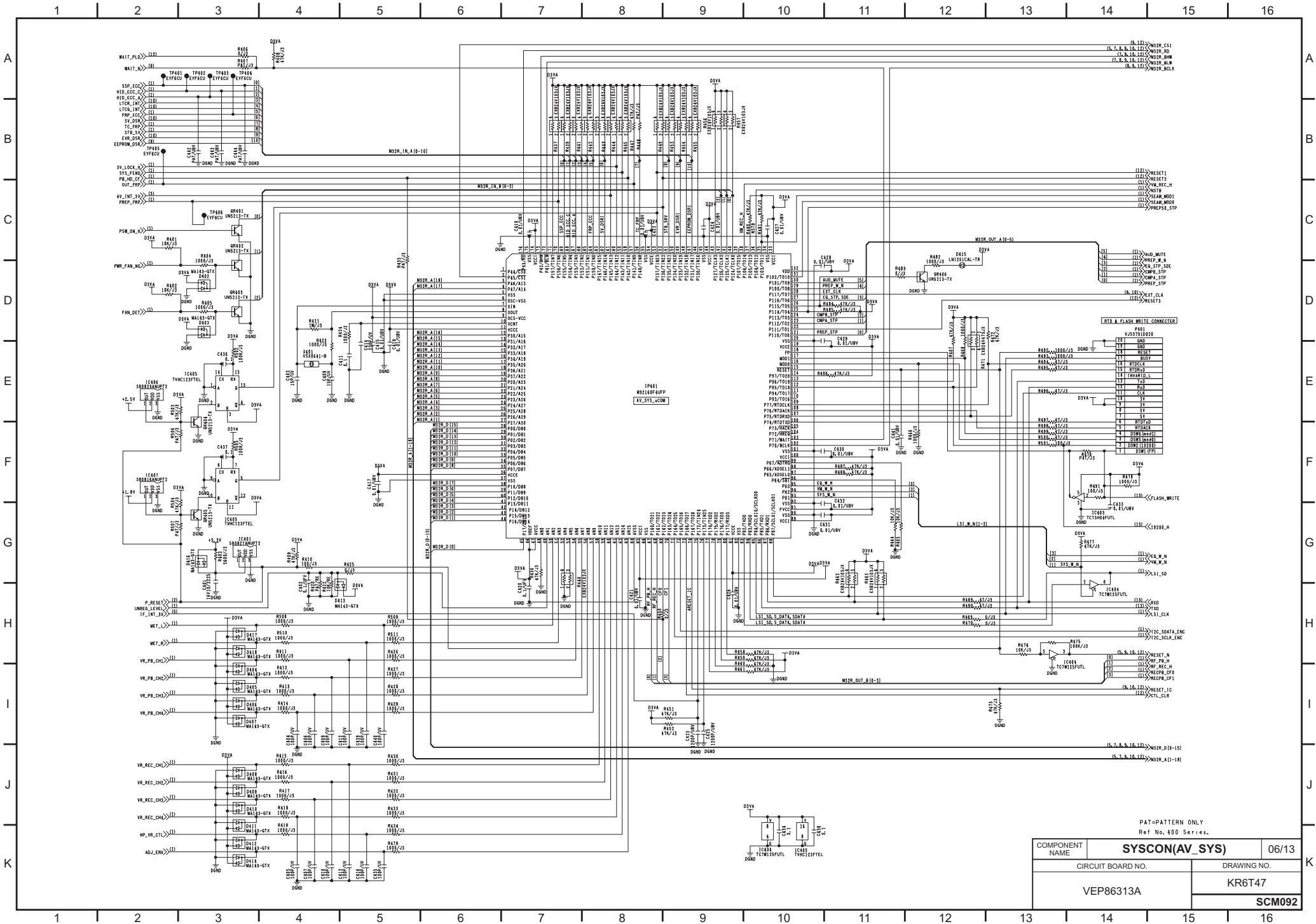
Ref No.1 Series

COMPONENT NAME	SYSCON(MOTHER_IF)	01/13
CIRCUIT BOARD NO.	VEP86313A	DRAWING NO.
		KR6T47
		SCM087

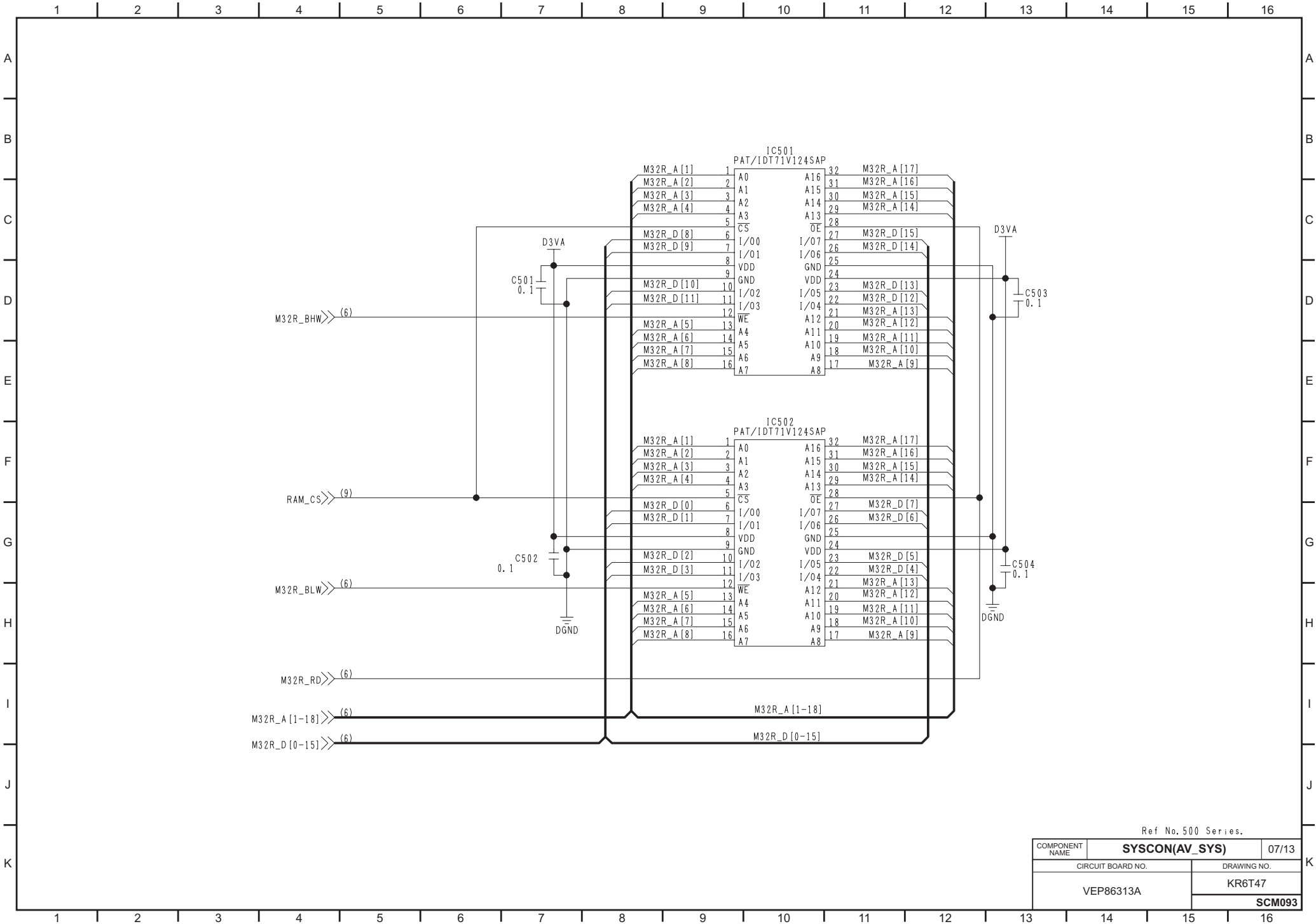




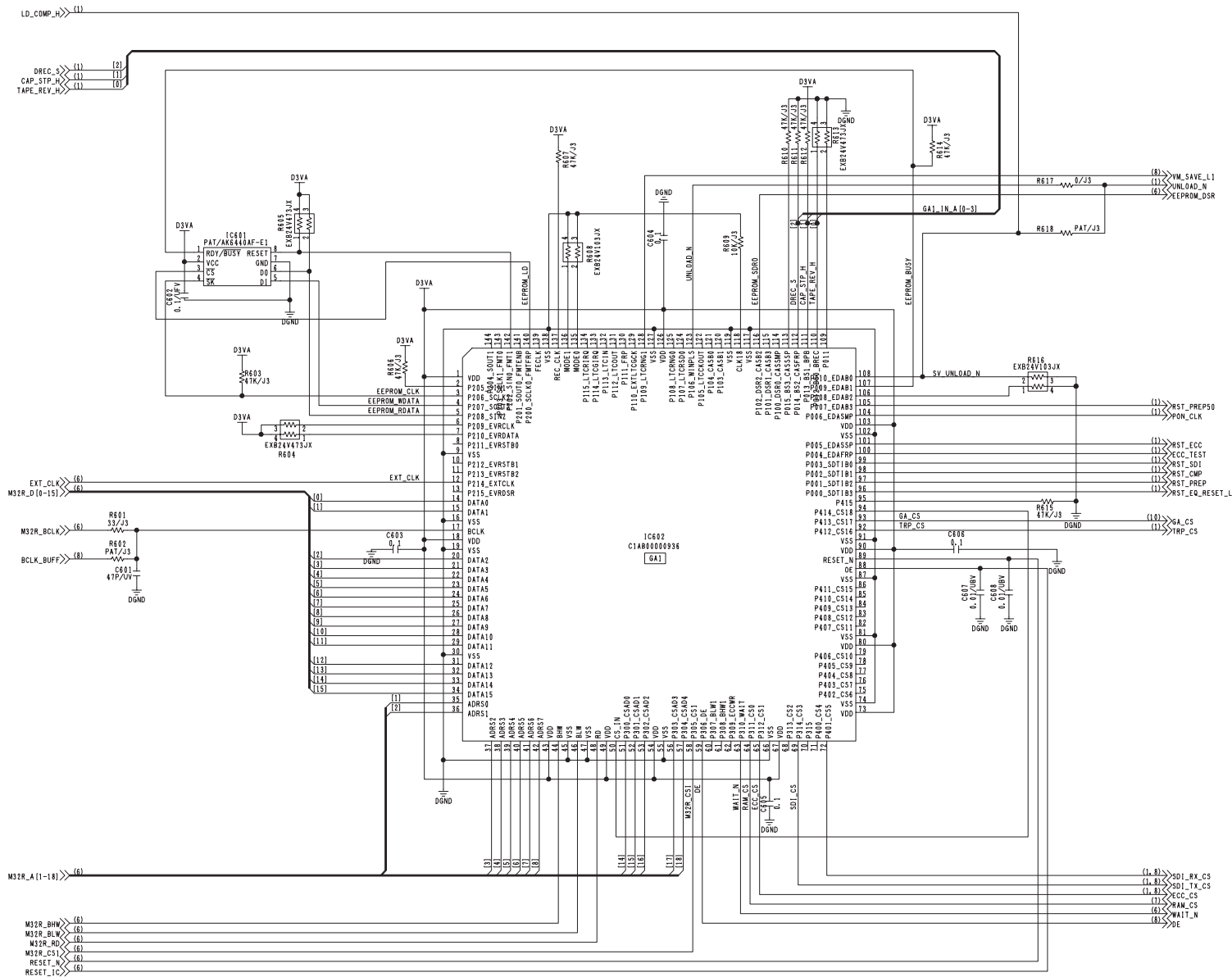




PAT=PATTERN ONLY Ref No. 600 Series.		
COMPONENT NAME	SYSCON(AV_SYS)	06/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86313A		KR6T47
SCM092		

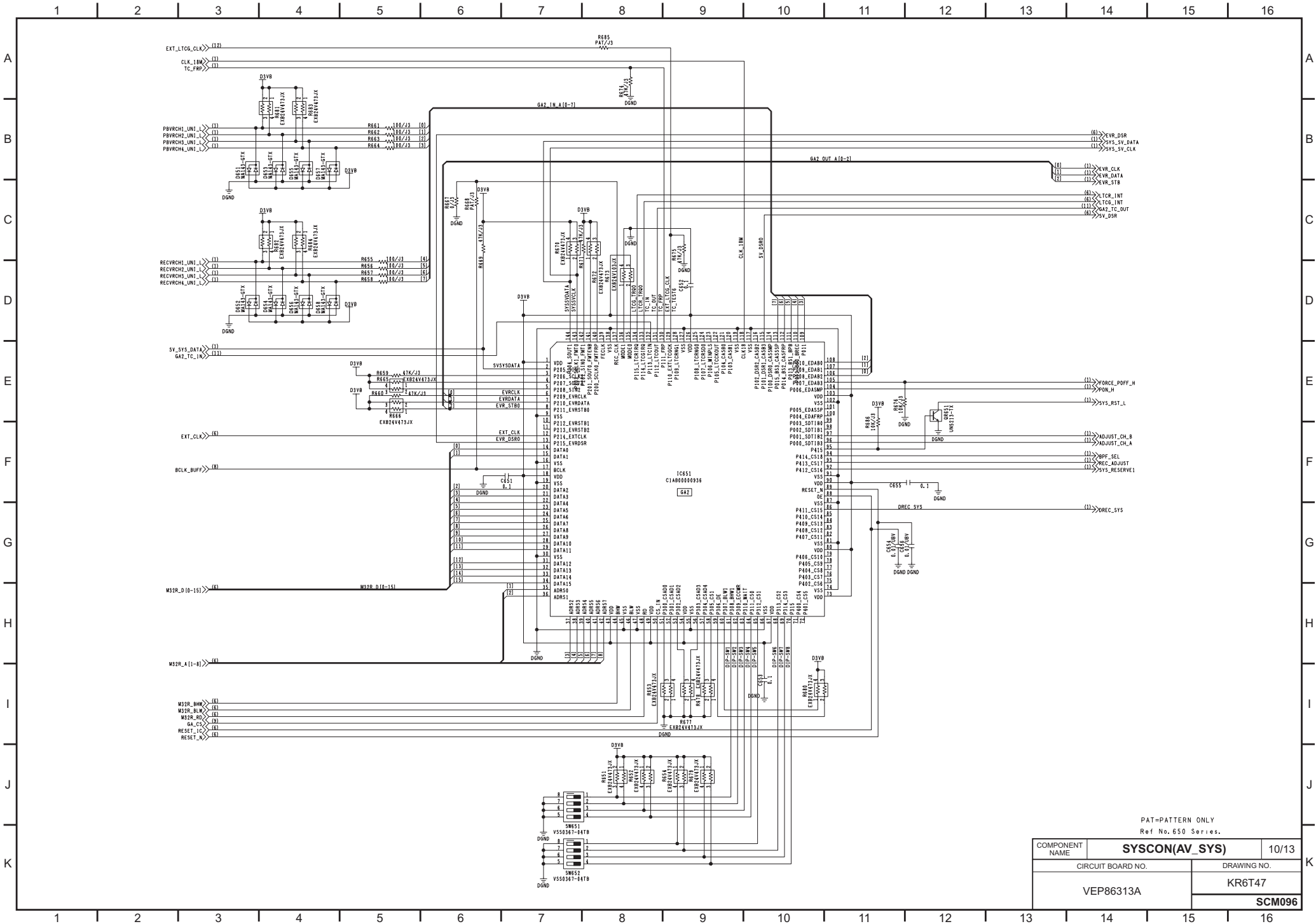


Ref No. 500 Series.		
COMPONENT NAME	SYSCON(AV_SYS)	07/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86313A		KR6T47
		SCM093

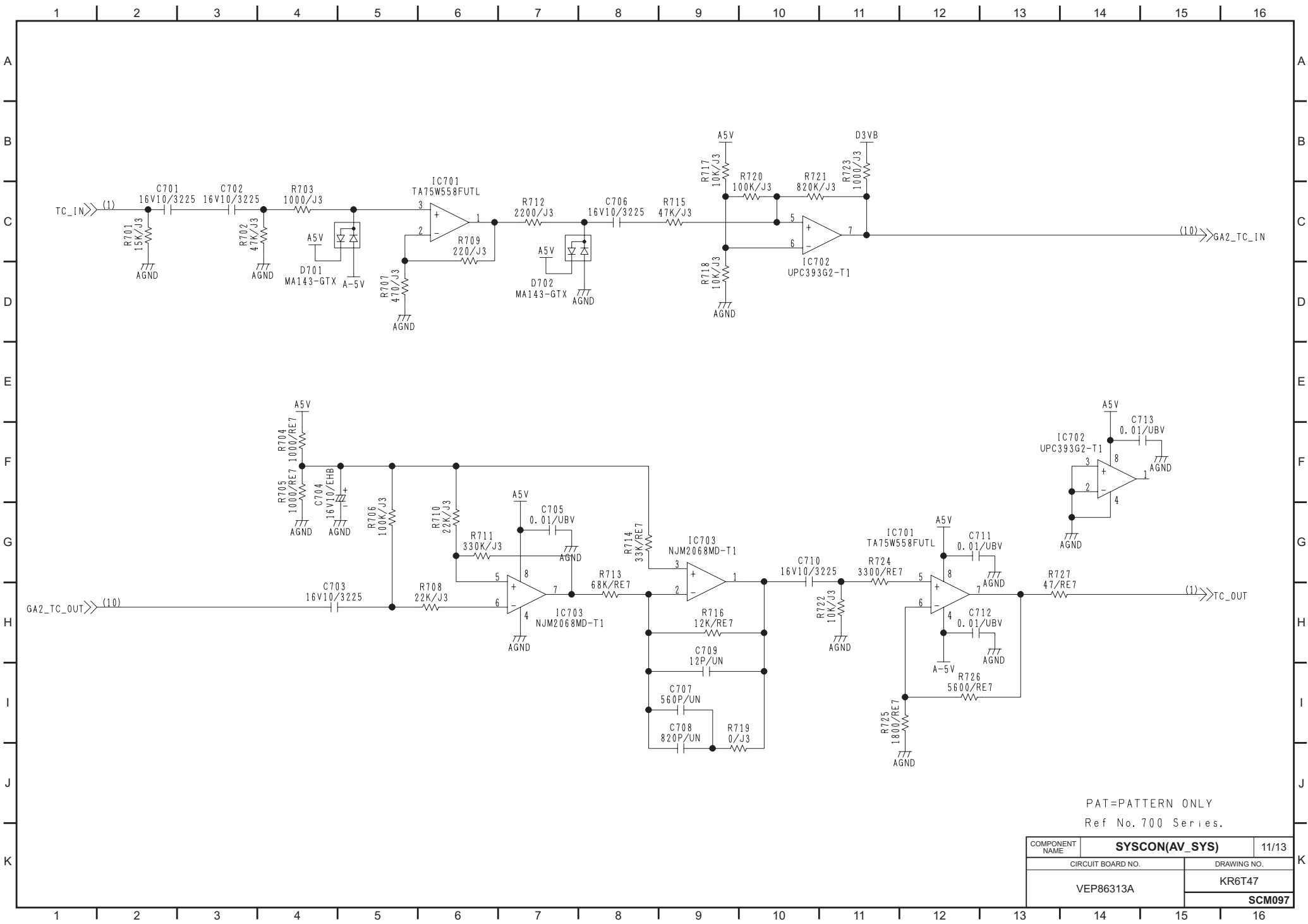


PAT=Pattern Only
Ref No. 600 Series.

COMPONENT NAME	SYSICON(AV_SYS)	09/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86313A	KR6T47	
	SCM095	

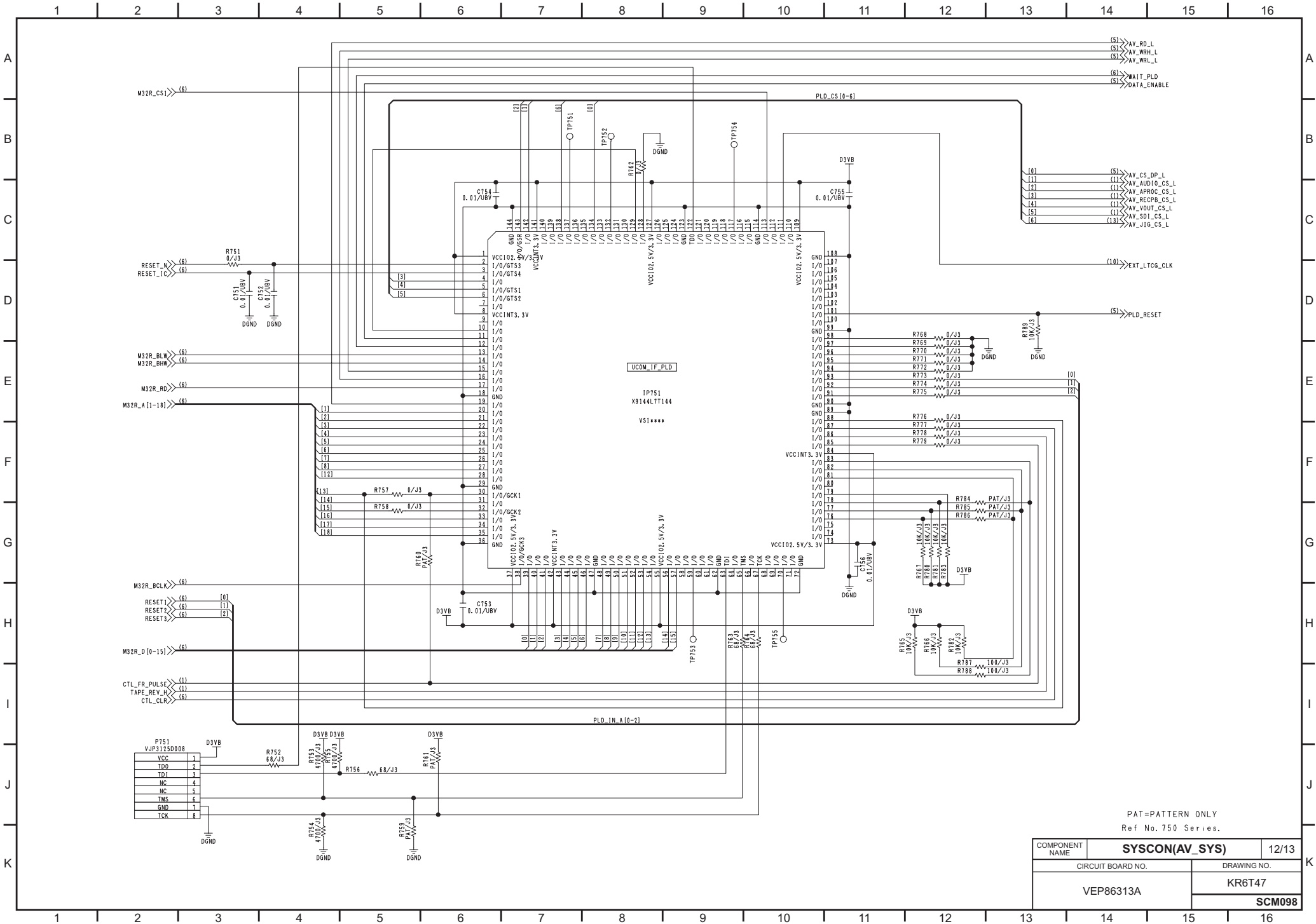


PAT=PATTERN ONLY Ref No. 650 Series.		
COMPONENT NAME	SYSCON(AV_SYS)	10/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86313A		KR6T47
SCM096		



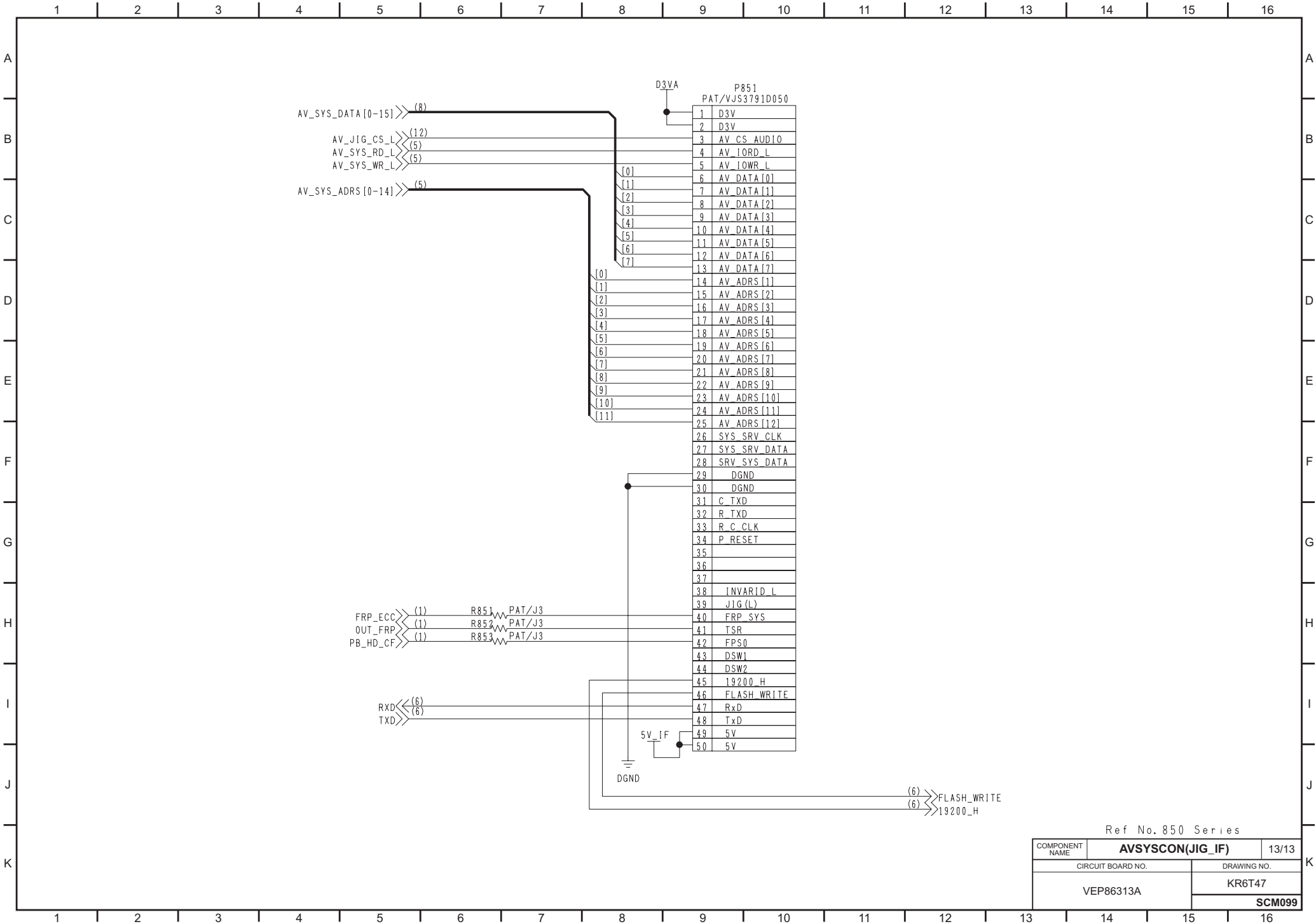
PAT=PATTERN ONLY
Ref No. 700 Series.

COMPONENT NAME	SYSCON(AV_SYS)	11/13
CIRCUIT BOARD NO.	VEP86313A	DRAWING NO. KR6T47
		SCM097



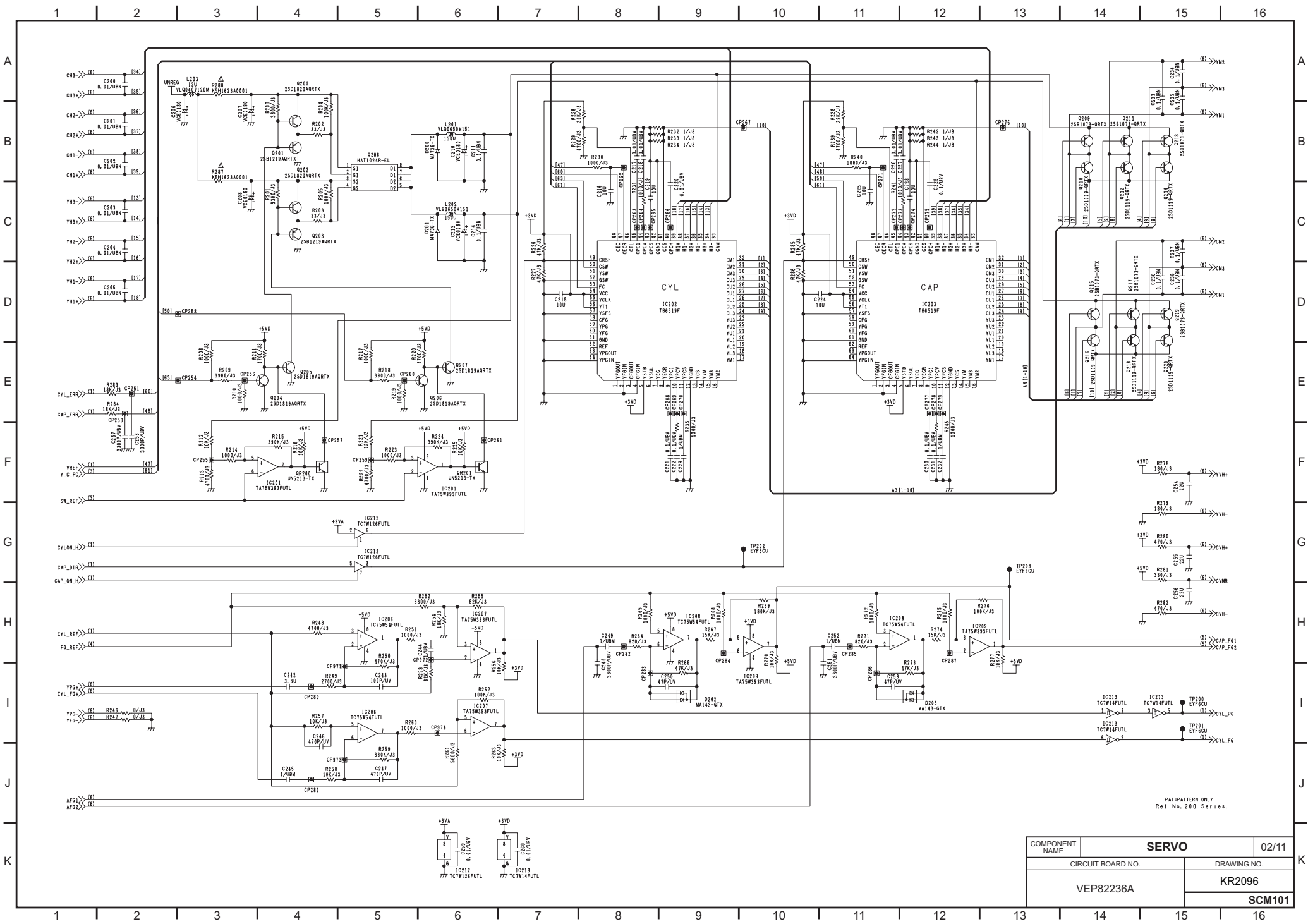
PAT=PATTERN ONLY
Ref No. 750 Series.

COMPONENT NAME	SYSCON(AV_SYS)	12/13
CIRCUIT BOARD NO.	VEP86313A	DRAWING NO.
		KR6T47
		SCM098



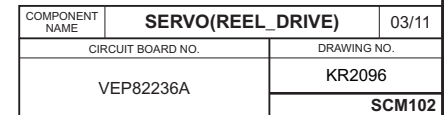
Ref No. 850 Series

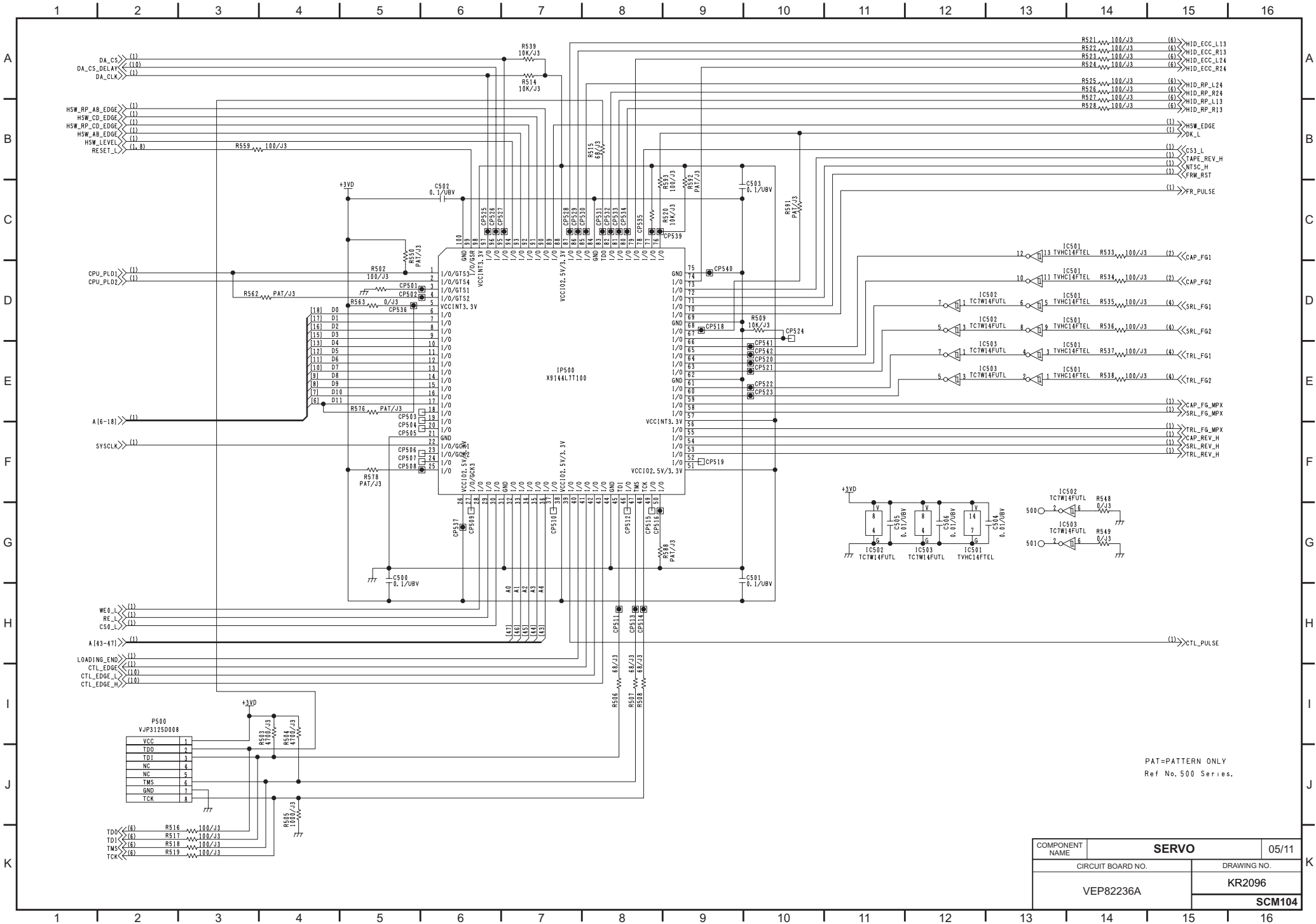
COMPONENT NAME	AVSYSCON(JIG_IF)	13/13
CIRCUIT BOARD NO.	VEP86313A	DRAWING NO.
		KR6T47
		SCM099



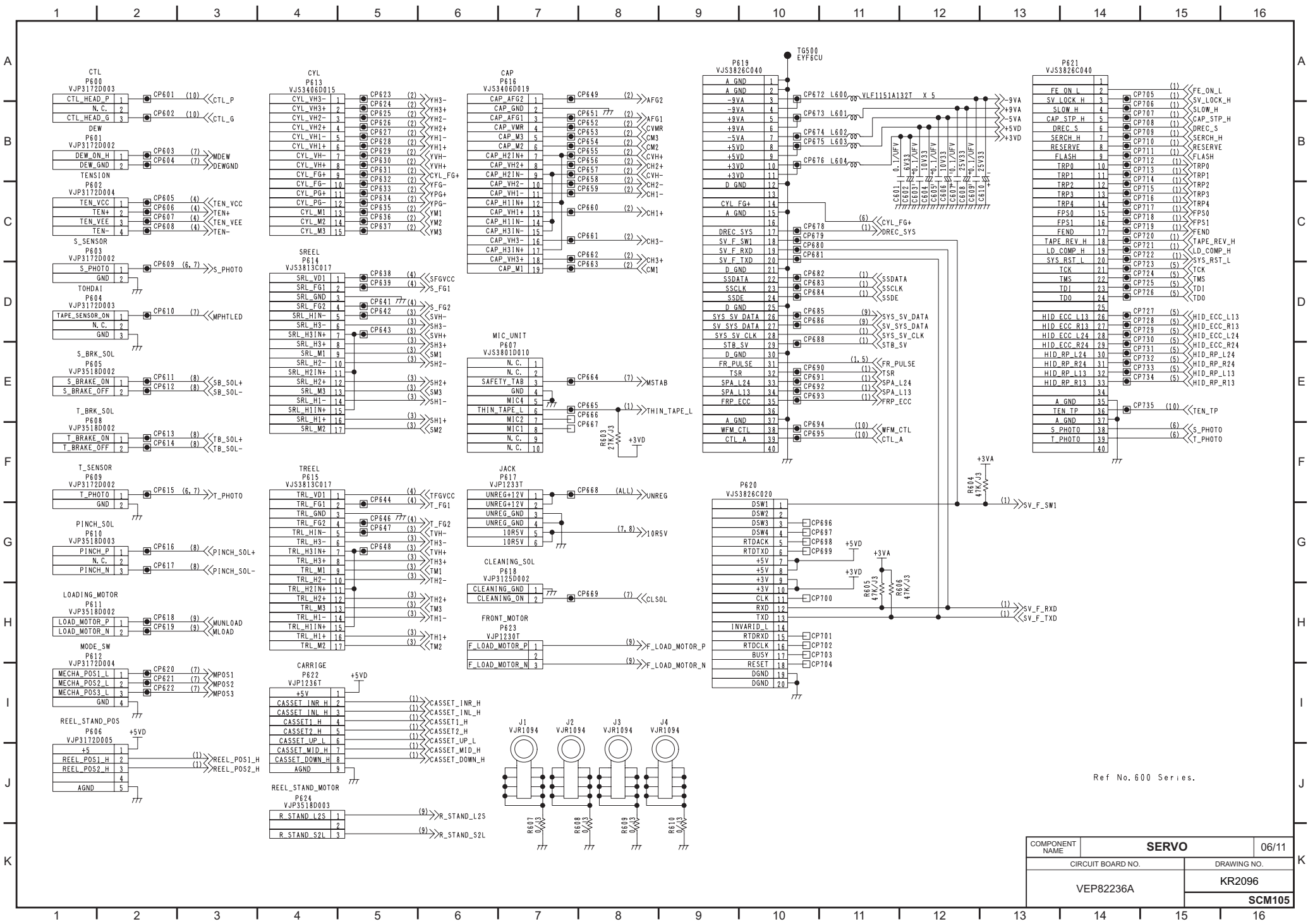
PAT= PATTERN ONLY
Ref No. 200 Series.

COMPONENT NAME		SERVO	02/11
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82236A		KR2096	
		SCM101	



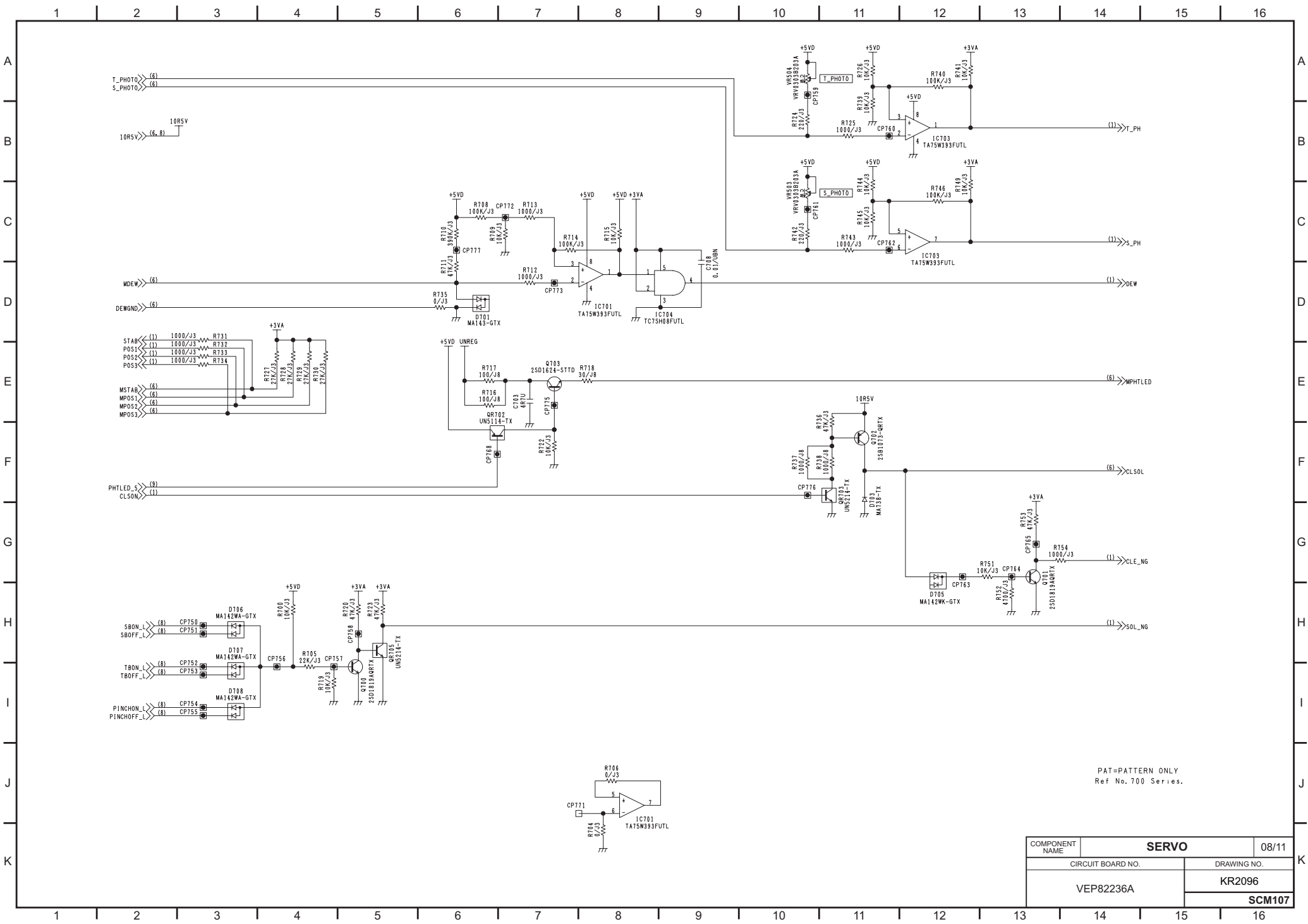


COMPONENT NAME	SERVO		05/11
	CIRCUIT BOARD NO.		DRAWING NO.
VEP82236A		KR2096	
		SCM104	



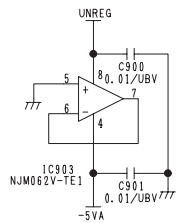
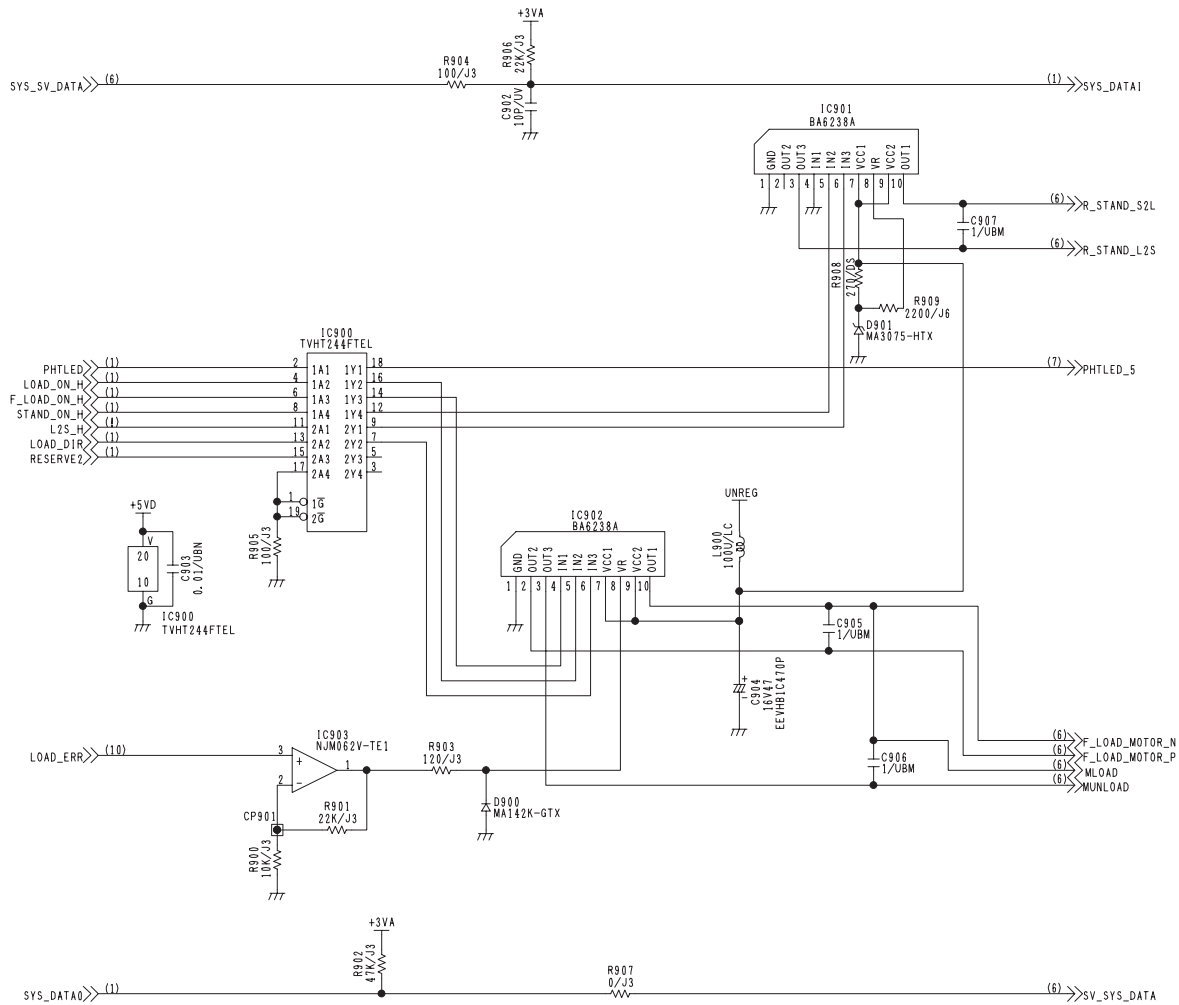
Ref No. 600 Series.

COMPONENT NAME	SERVO		06/11
	CIRCUIT BOARD NO.		DRAWING NO.
VEP82236A		KR2096	
		SCM105	



PAT= PATTERN ONLY
Ref No. 700 Series.

COMPONENT NAME	SERVO	08/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82236A	KR2096	
	SCM107	



PAT=PATTERN ONLY
 Ref No. 900 Series.

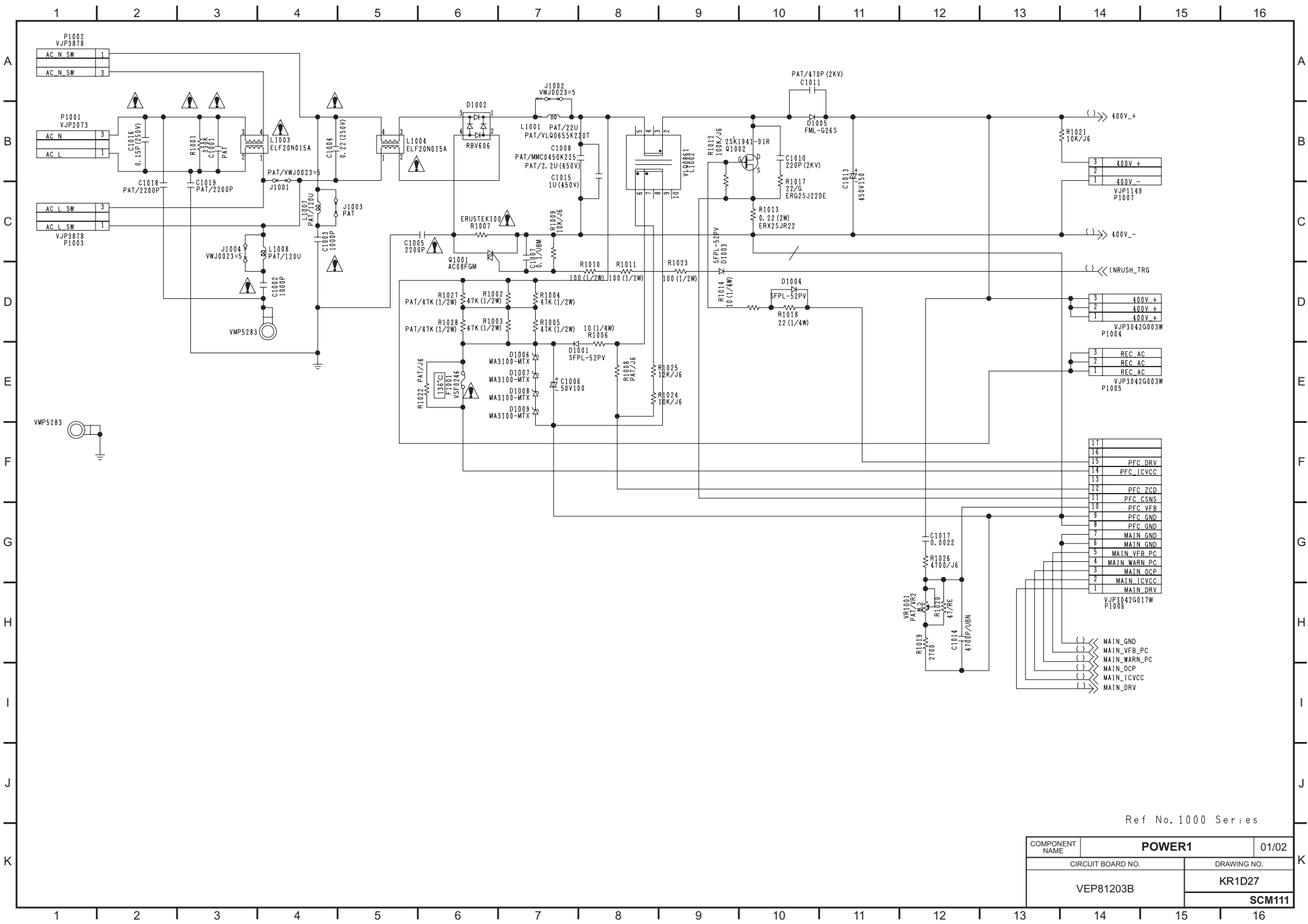
COMPONENT NAME	SERVO		09/11
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82236A		KR2096	
		SCM108	

SCM109

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
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C																	C
D																	D
E																	E
F																	F
G																	G
H																	H
I																	I
J																	J
K																	K

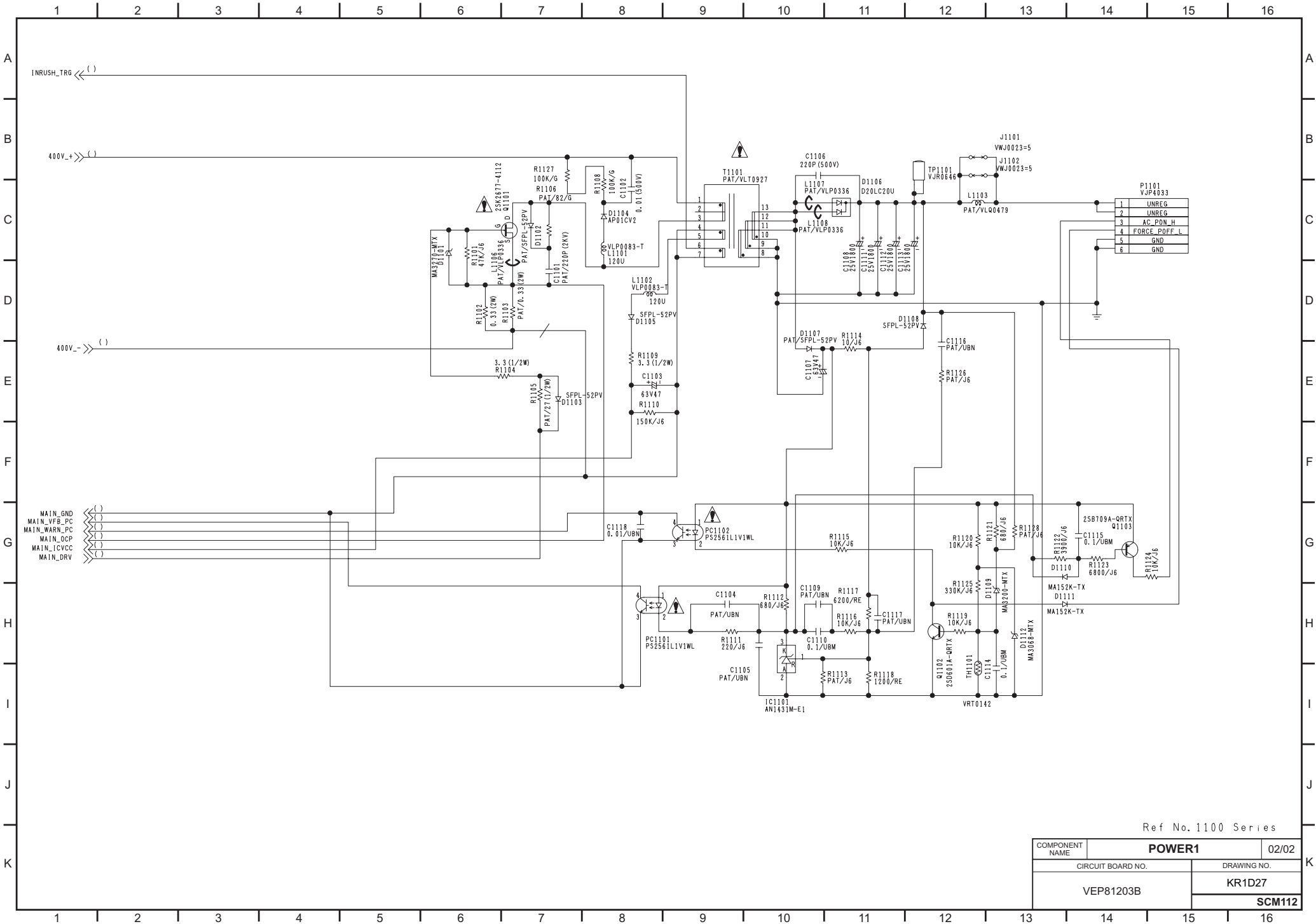
IP100 MN1030F04KHF			IP500 X9144L7T100		
VSI3502			VSI3503		

COMPONENT NAME	SOFT		11/11
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82236A		KR2096	
		SCM110	



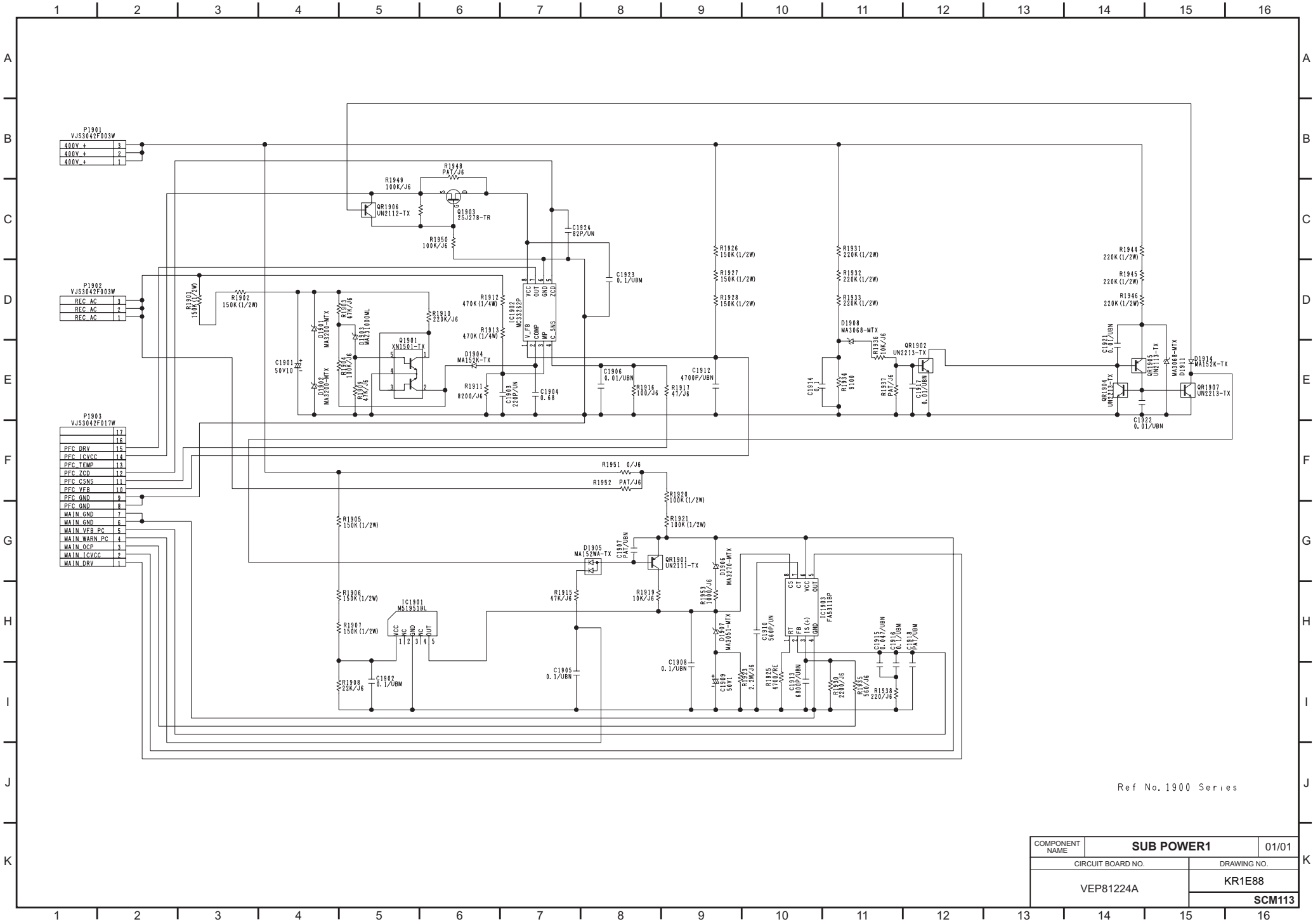
Ref No. 1000 Series

COMPONENT NAME	POWER1	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81203B	KR1D27	
		SCM111



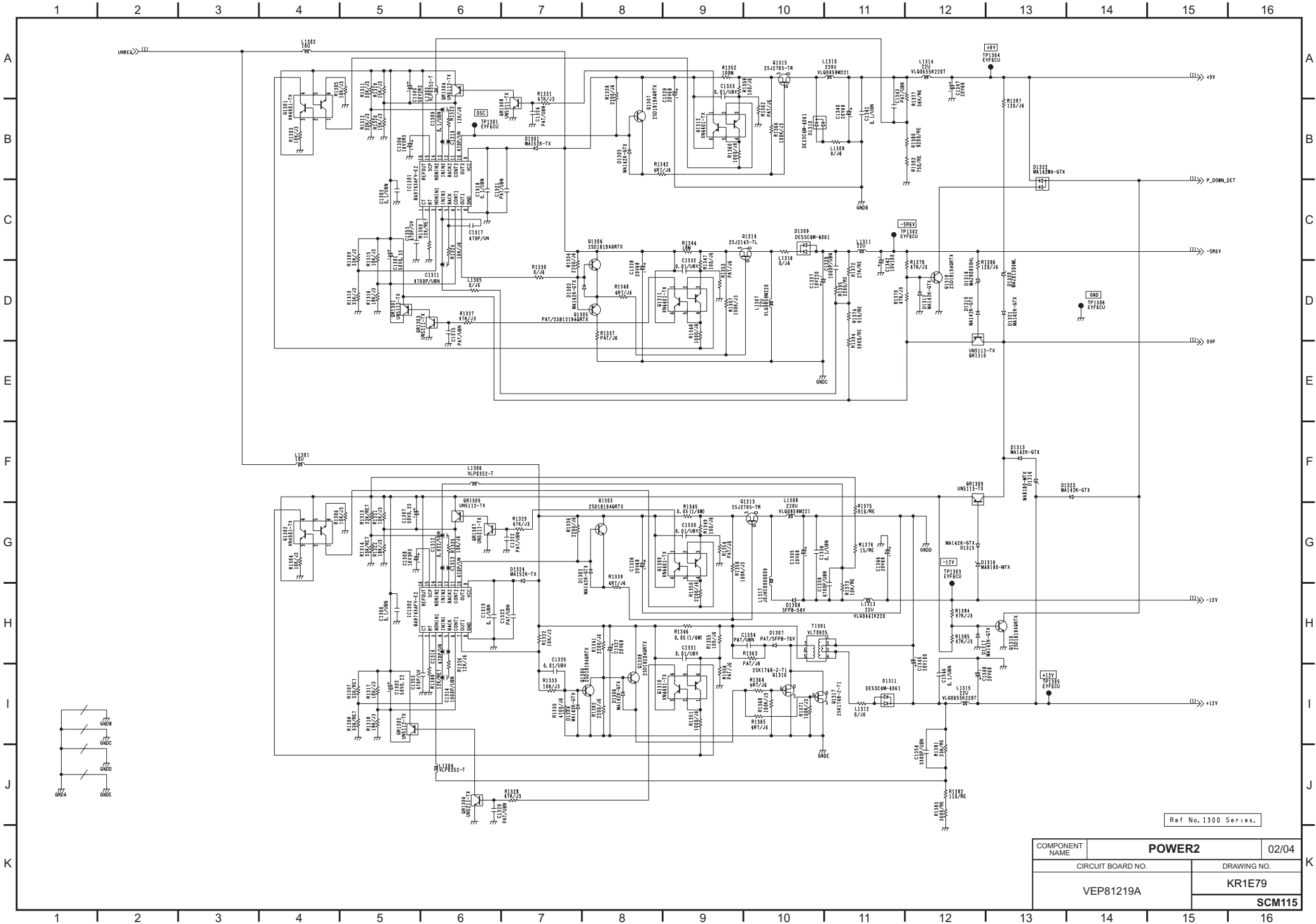
Ref No. 1100 Series

COMPONENT NAME	POWER1	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81203B	KR1D27	
	SCM112	



Ref No.1900 Series

COMPONENT NAME	SUB POWER1		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81224A		KR1E88	
		SCM113	

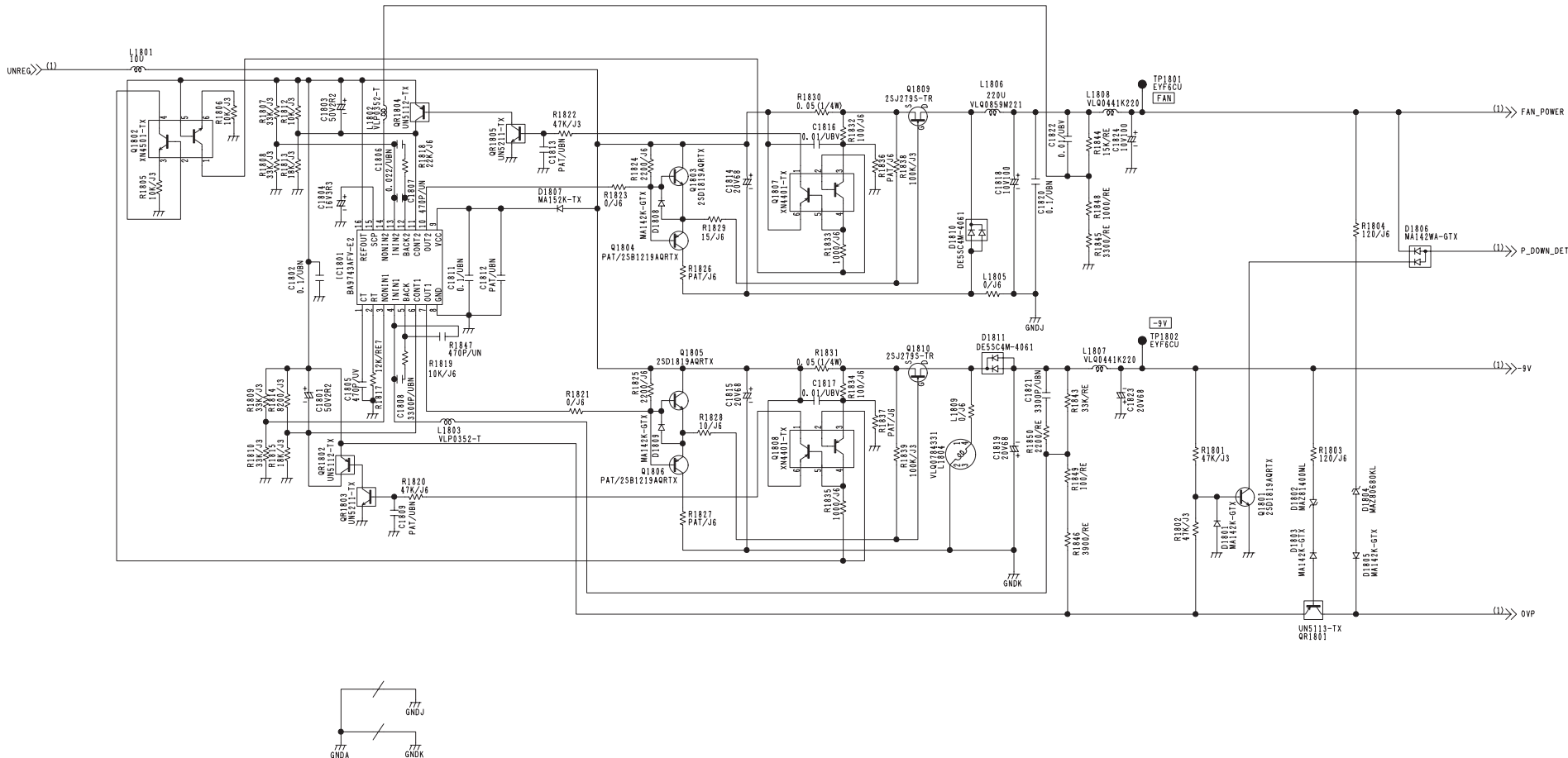


Ref No. 1300 Series.

COMPONENT NAME	POWER2	02/04
CIRCUIT BOARD NO.	VEP81219A	DRAWING NO.
		KR1E79
		SCM115

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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Ref No. 1800 Series.

COMPONENT NAME	POWER2		04/04
	DRAWING NO.		
CIRCUIT BOARD NO.		KR1E79	
VEP81219A		SCM117	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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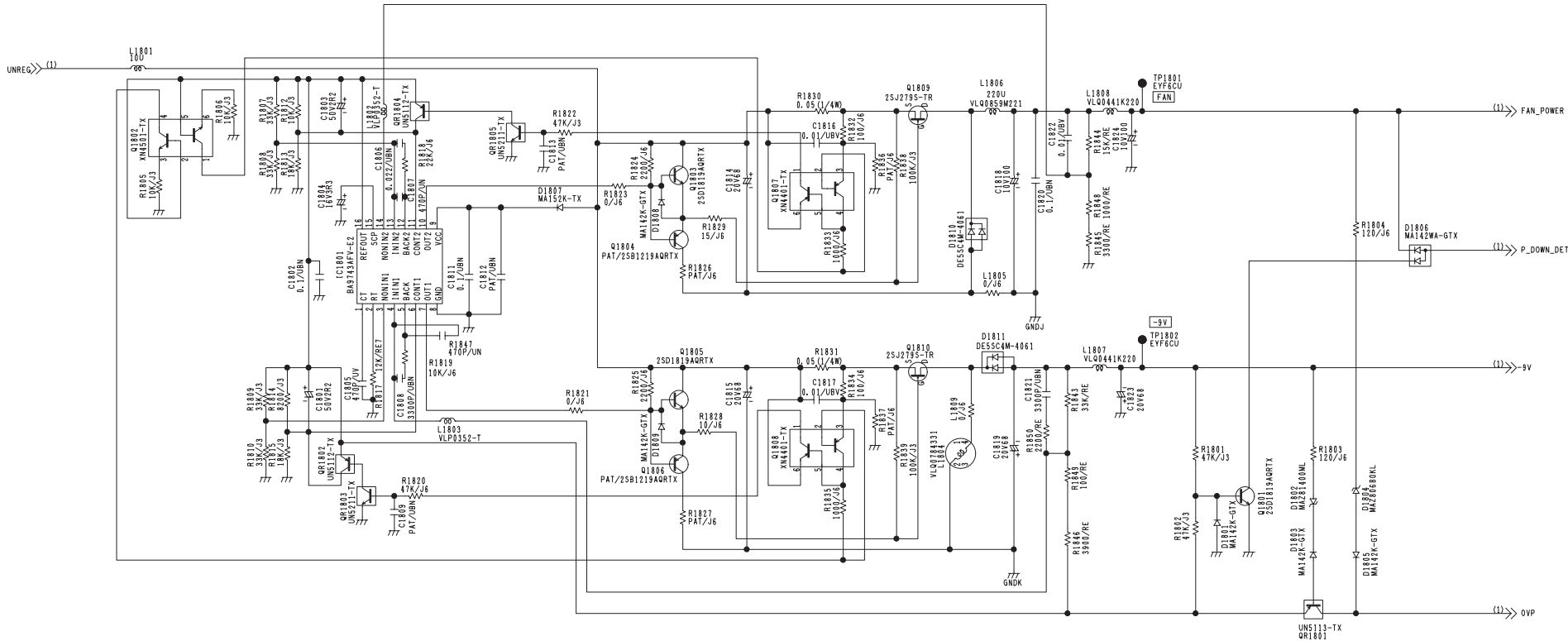
G

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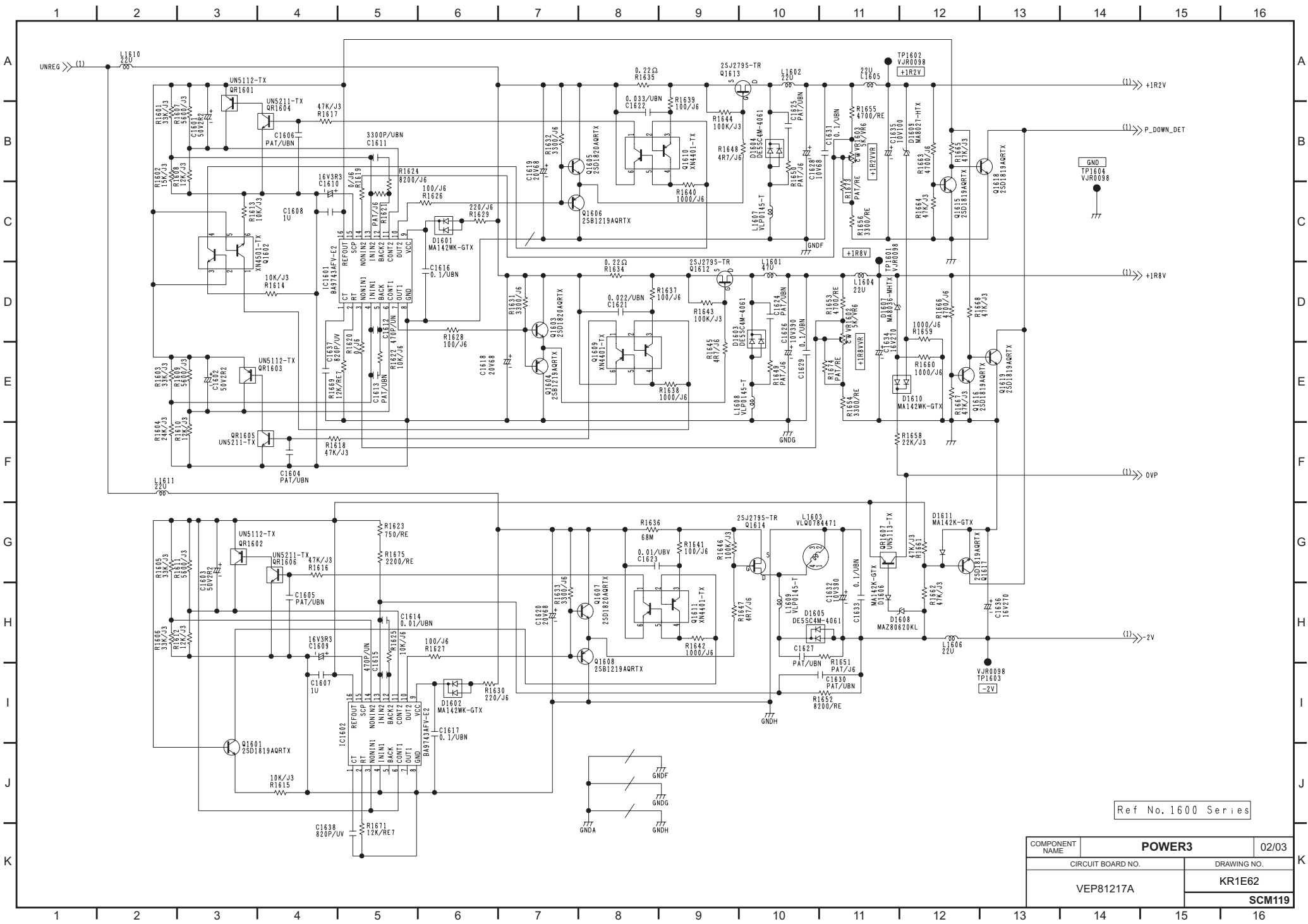
K



Ref No. 1800 Series.

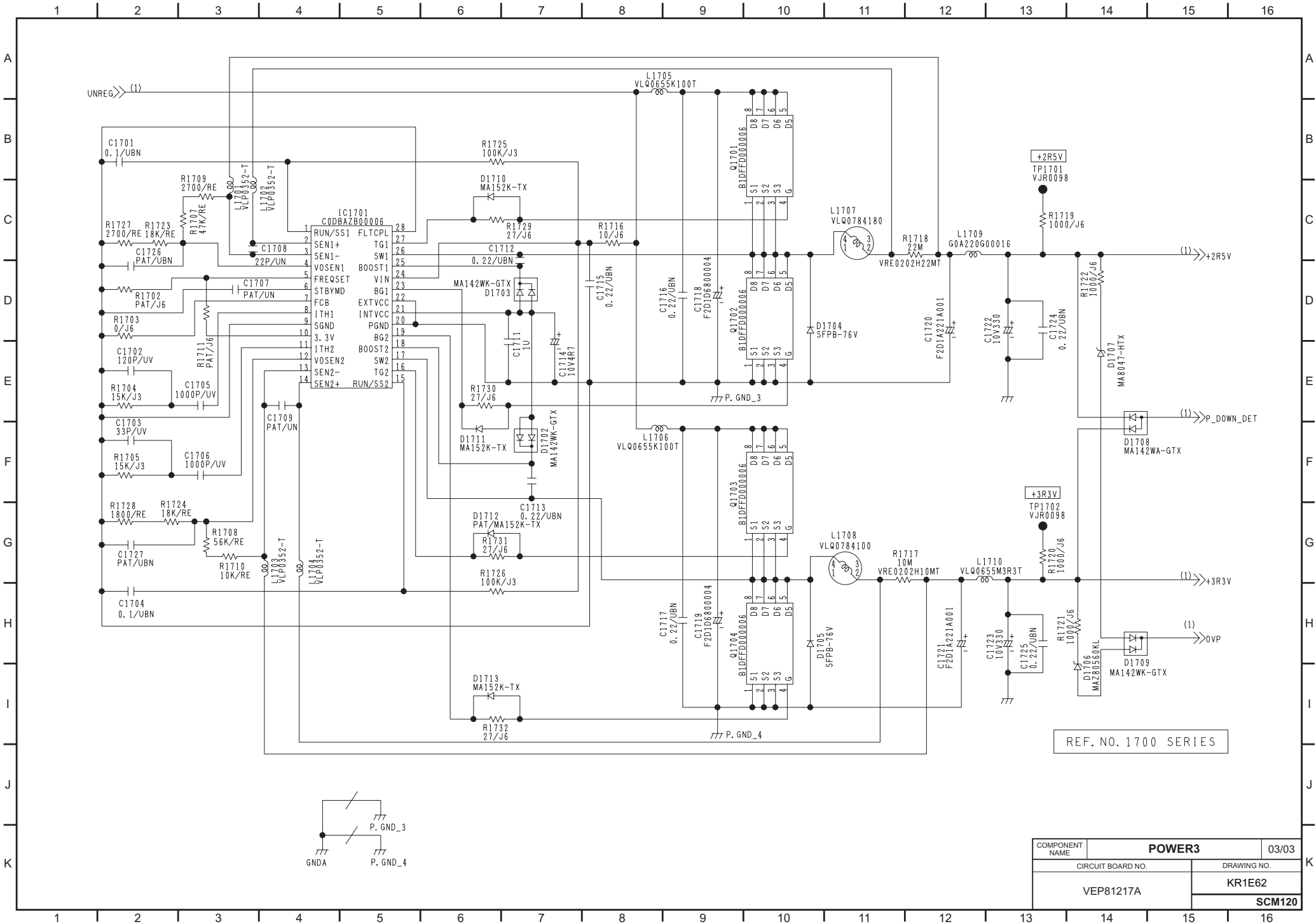
COMPONENT NAME	POWER3		01/03
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81217A		KR1E62	
		SCM118	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

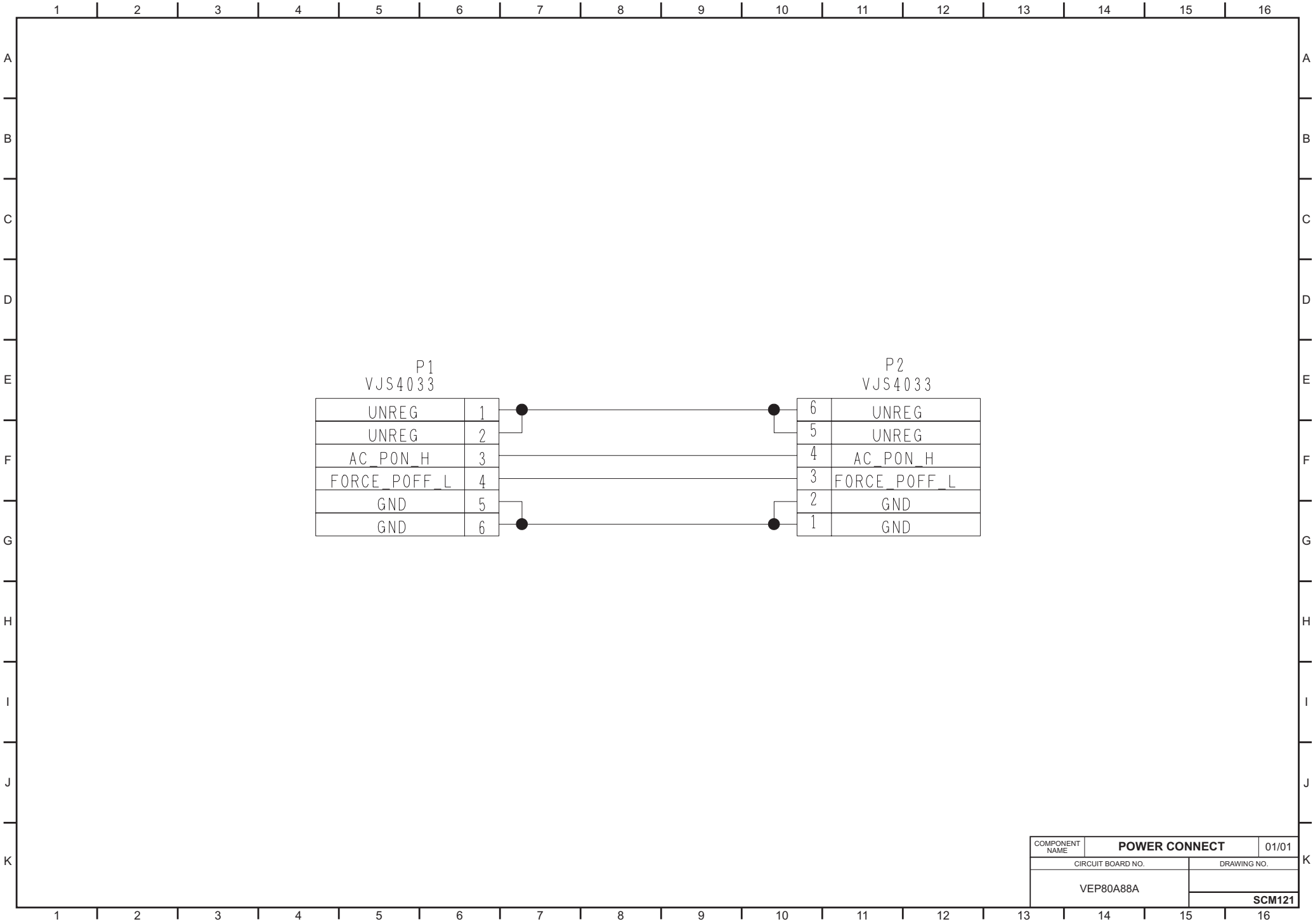


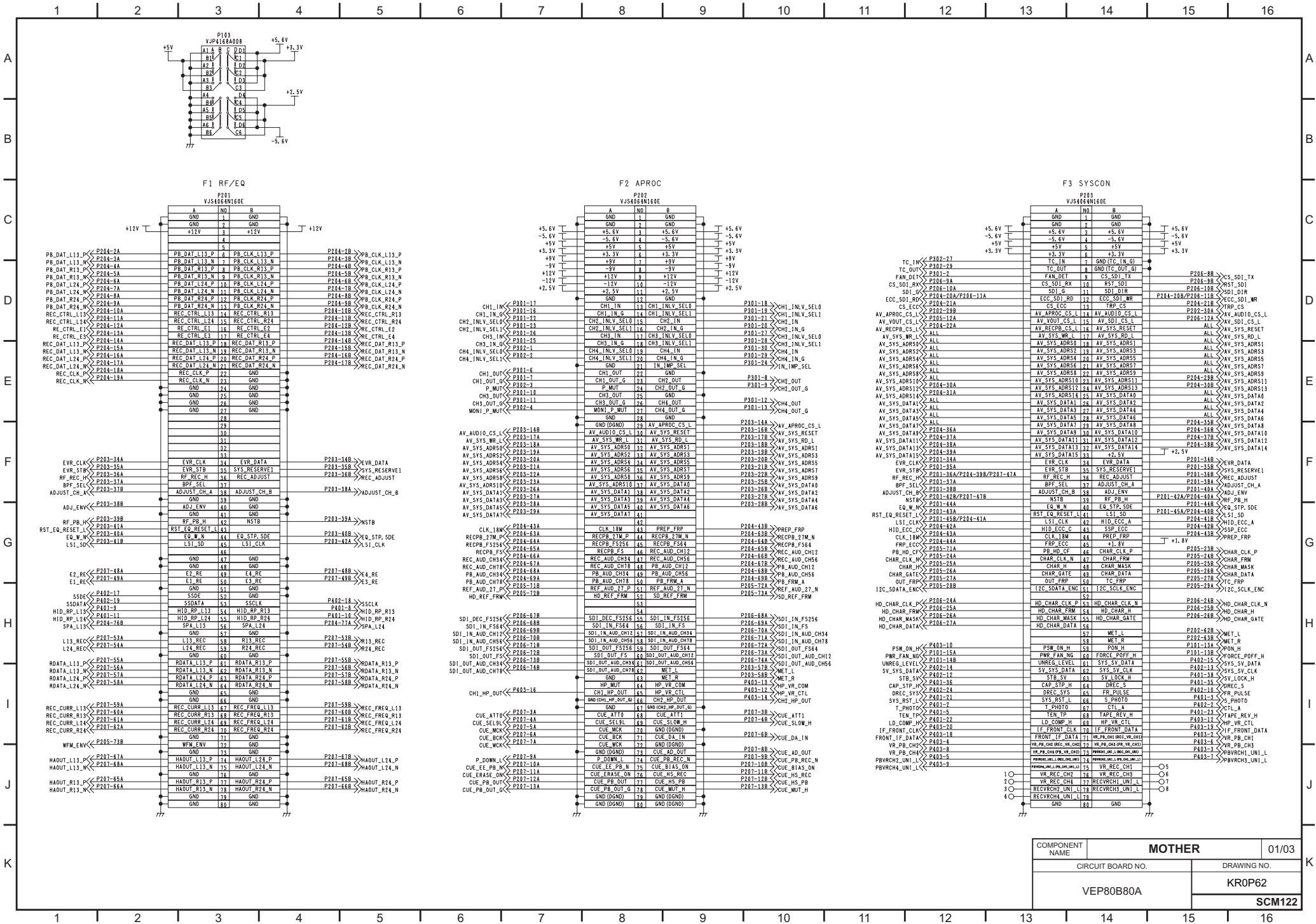
Ref No. 1600 Series

COMPONENT NAME		POWER3	02/03
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81217A		KR1E62	
		SCM119	

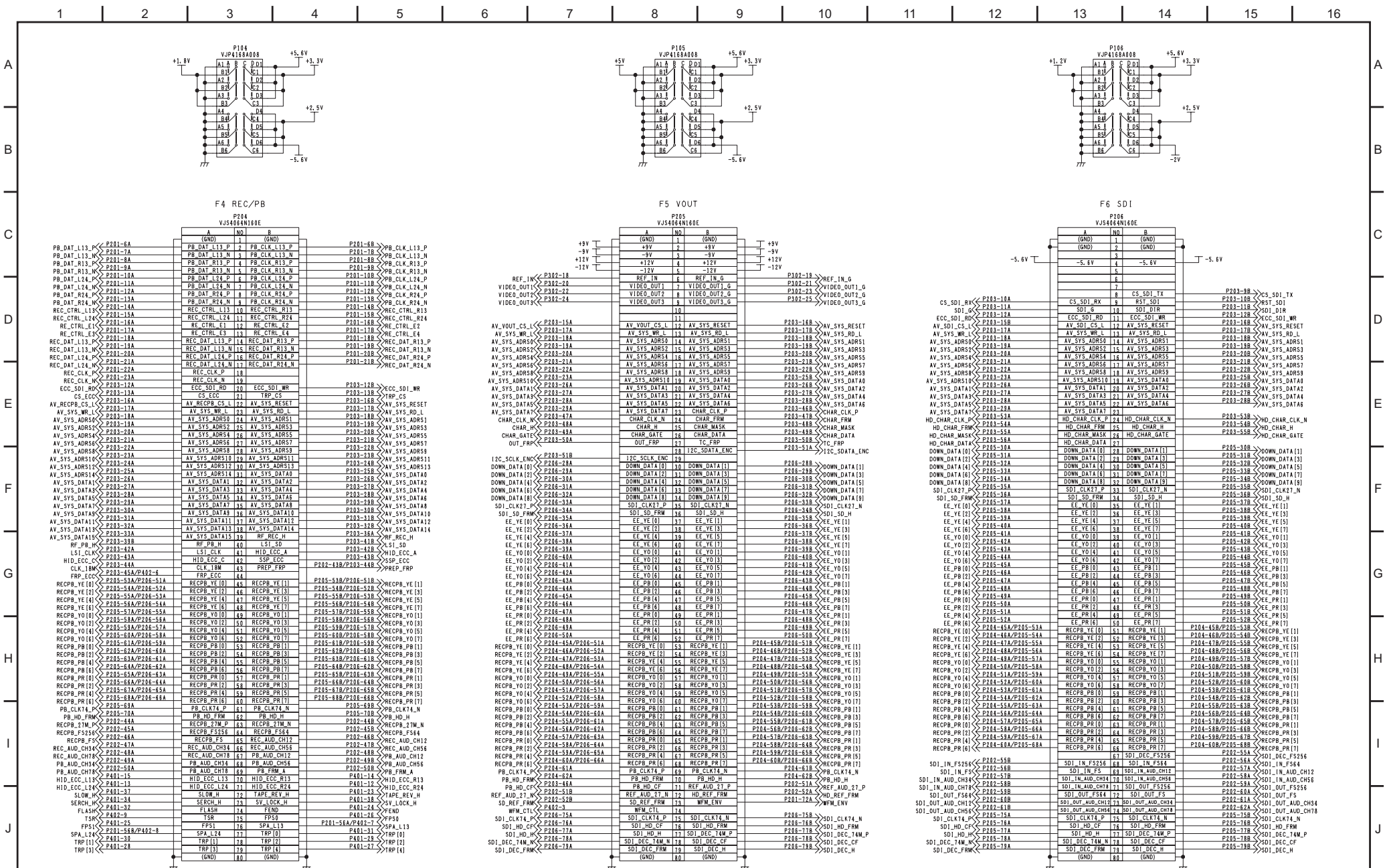


COMPONENT NAME		POWER3	03/03
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81217A		KR1E62	
		SCM120	

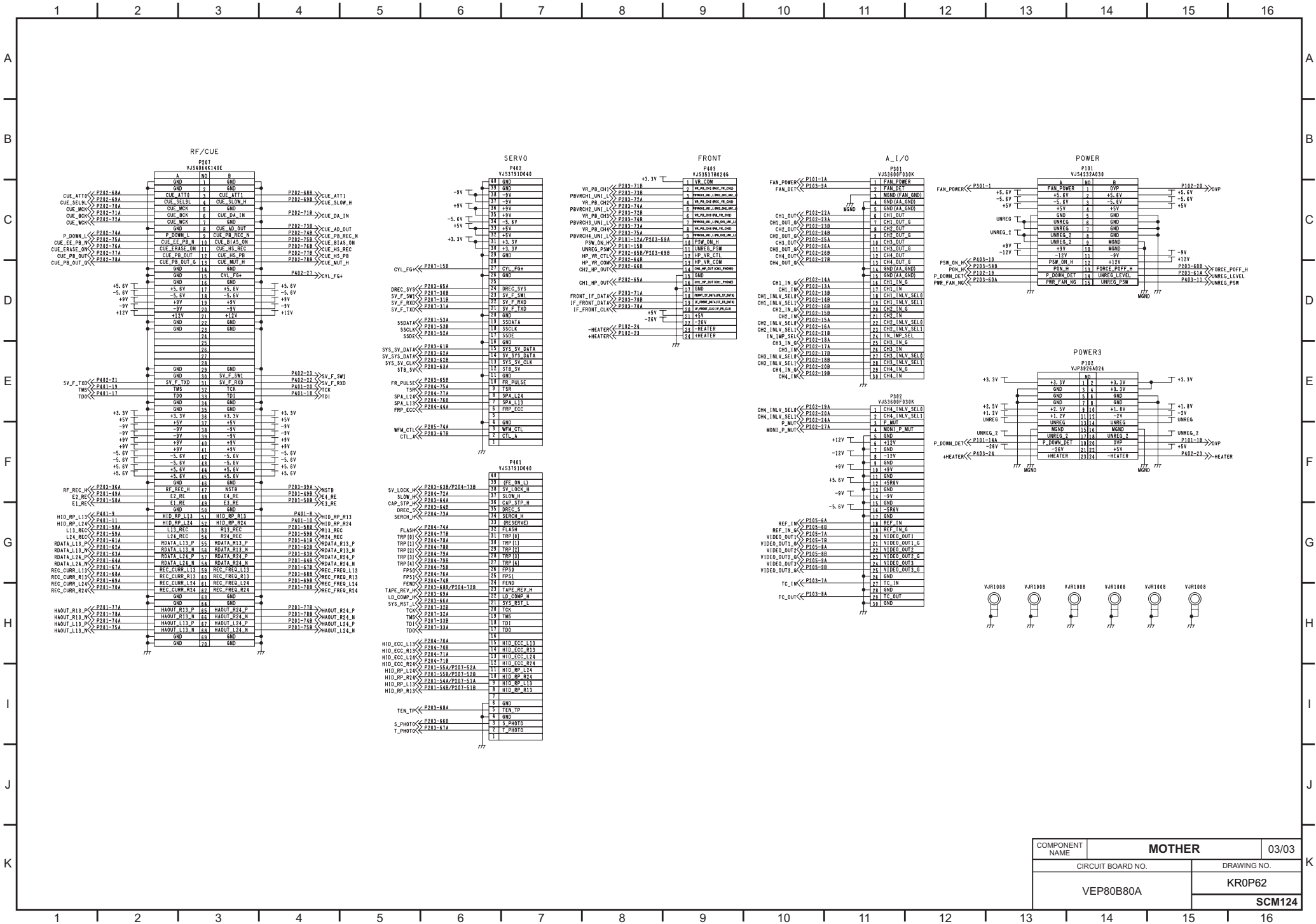




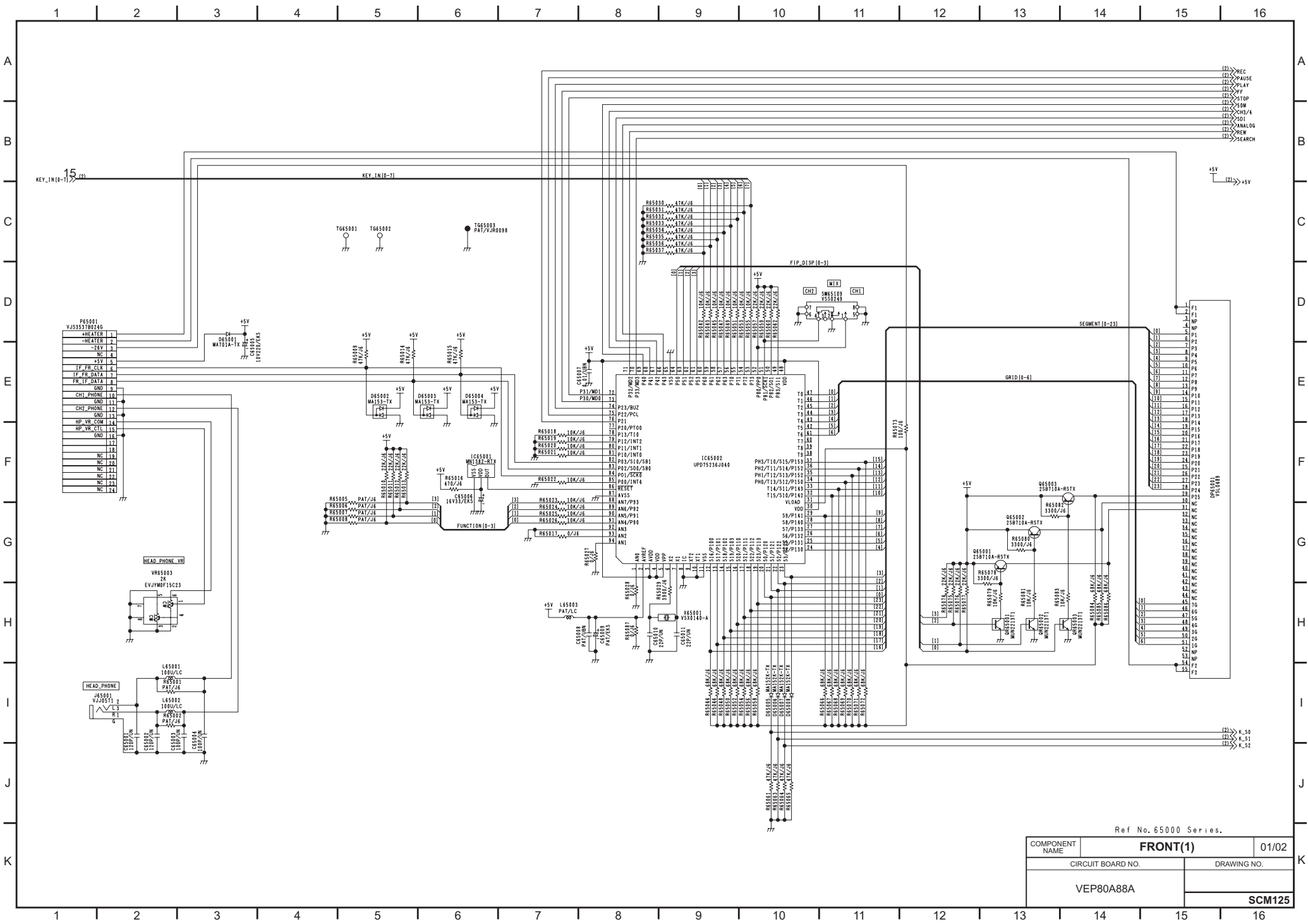
COMPONENT NAME		MOTHER	01/03
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80880A		KROP62	
		SCM122	



COMPONENT NAME		MOTHER		02/03
CIRCUIT BOARD NO.		DRAWING NO.		KR0P62
VEP08080A				SCM123

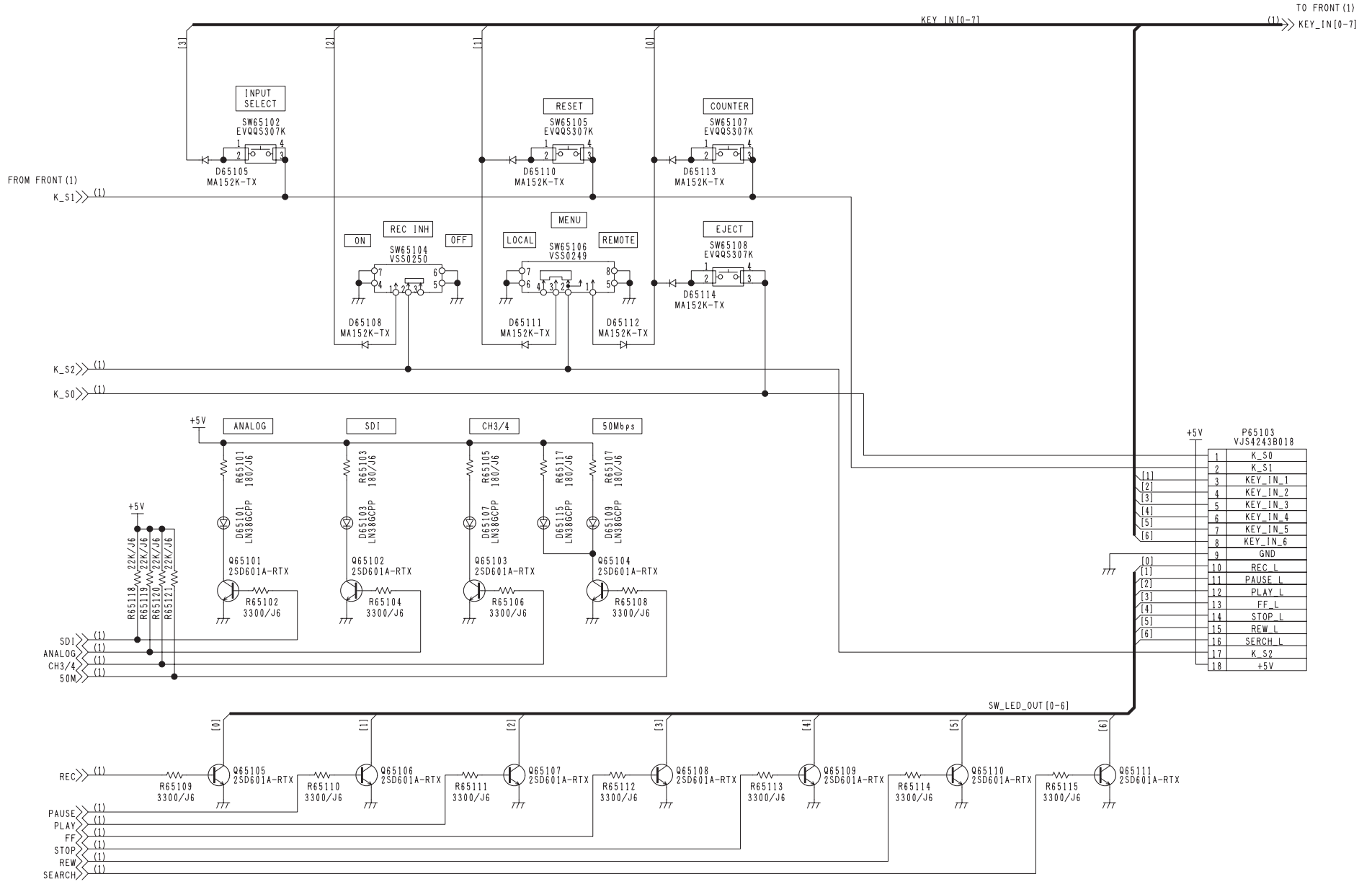


COMPONENT NAME	MOTHER		03/03
	CIRCUIT BOARD NO.		DRAWING NO.
	VEP80B80A		KROP62
			SCM124



Ref No. 65000 Series.	
COMPONENT NAME	FRONT(1)
CIRCUIT BOARD NO.	DRAWING NO.
VEP80A88A	SCM125

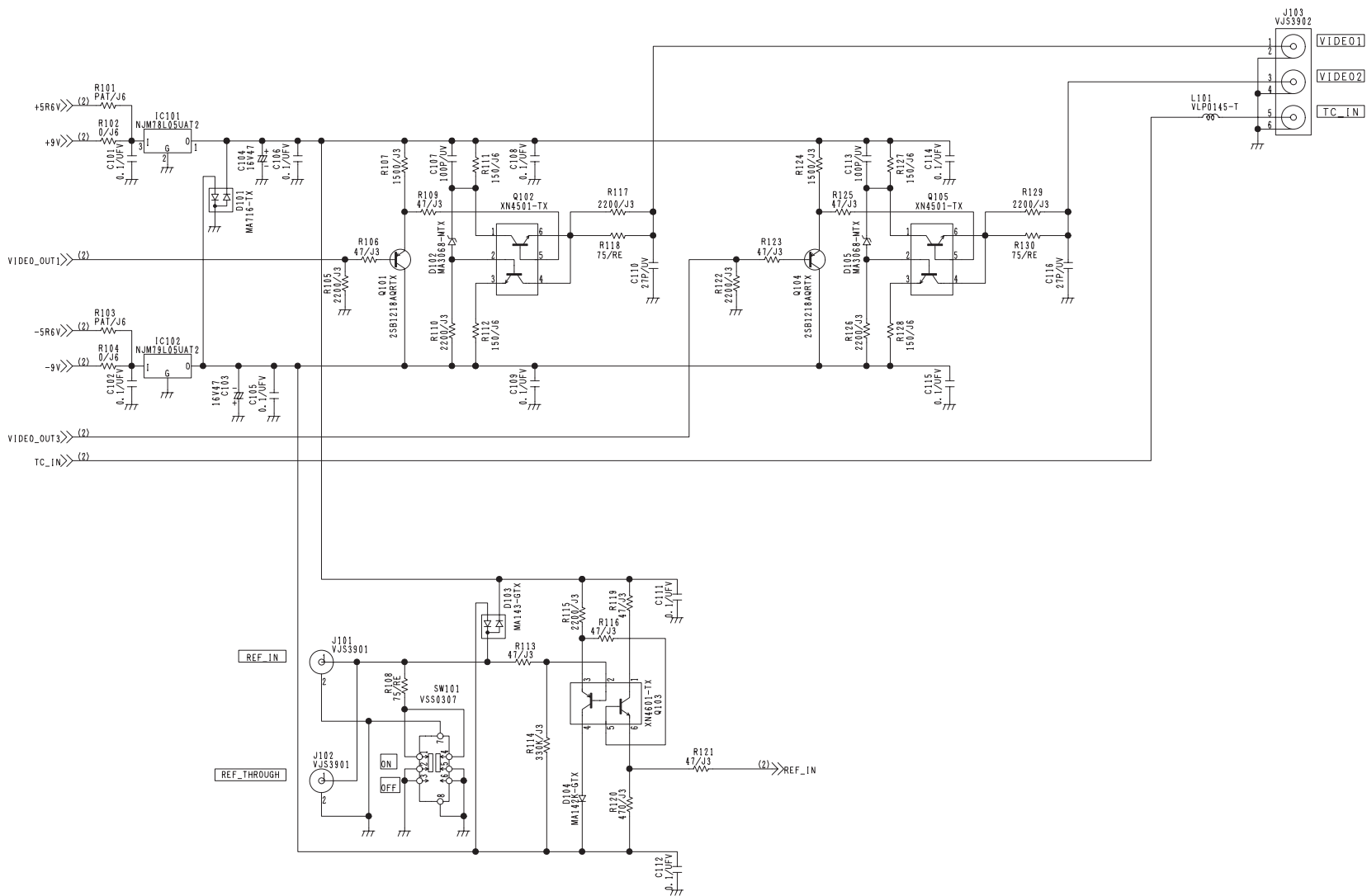
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



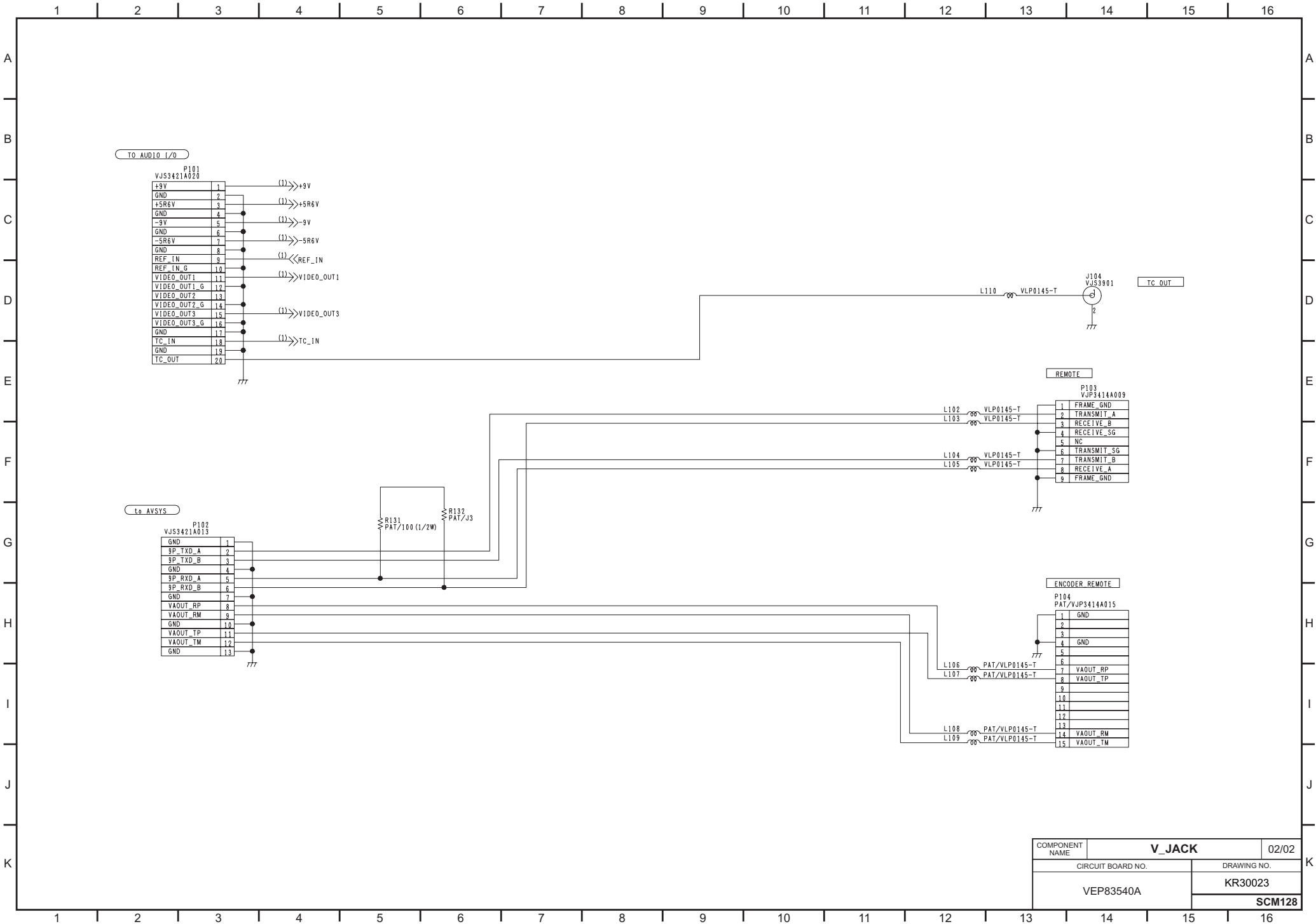
Ref No.65100 Series.

COMPONENT NAME	FRONT(2)	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP80A88A		SCM126

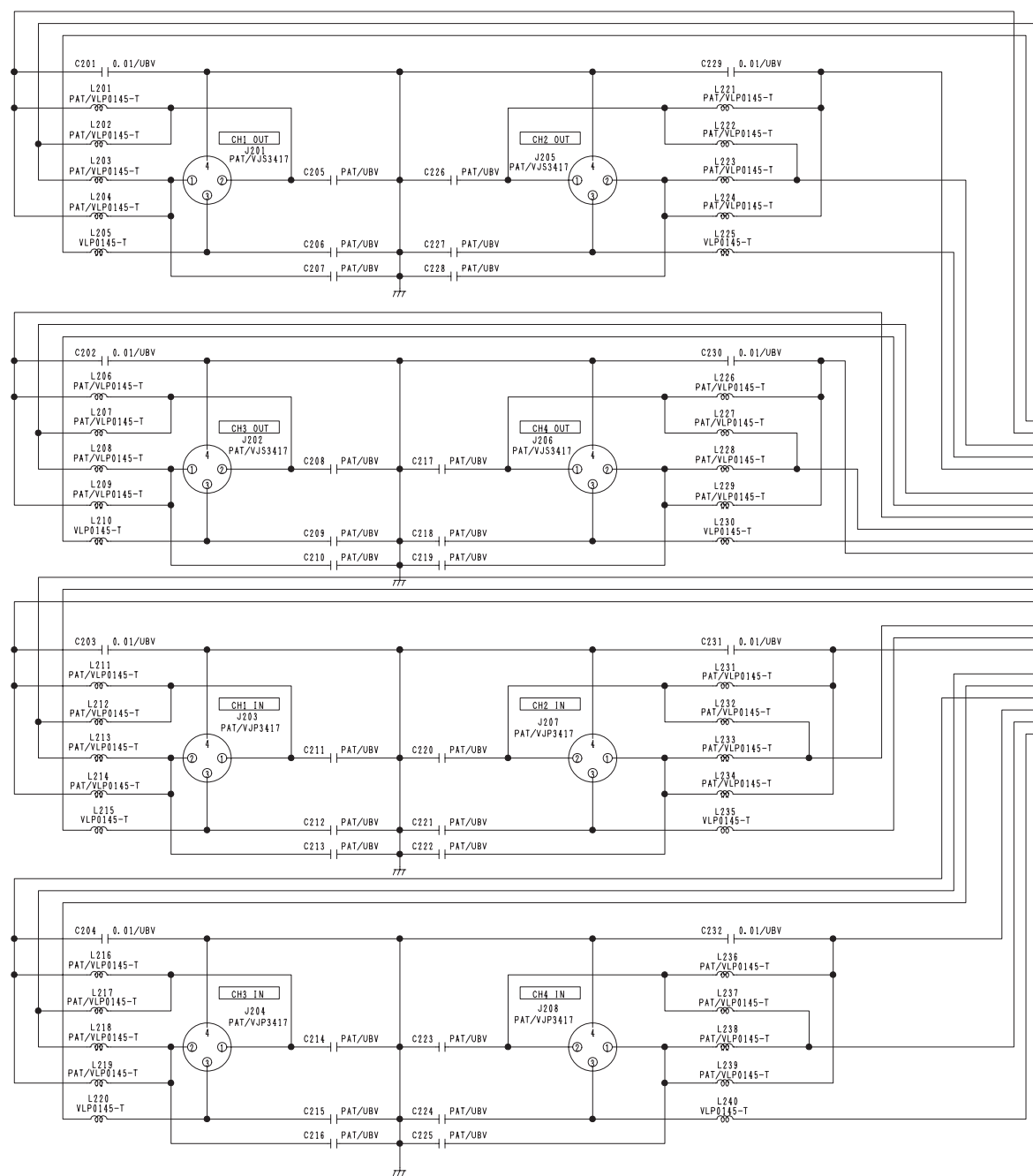
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME	V_JACK	01/02
CIRCUIT BOARD NO.	VEP83540A	DRAWING NO. KR30023
		SCM127



COMPONENT NAME	V_JACK	02/02
CIRCUIT BOARD NO.	VEP83540A	DRAWING NO. KR30023
		SCM128

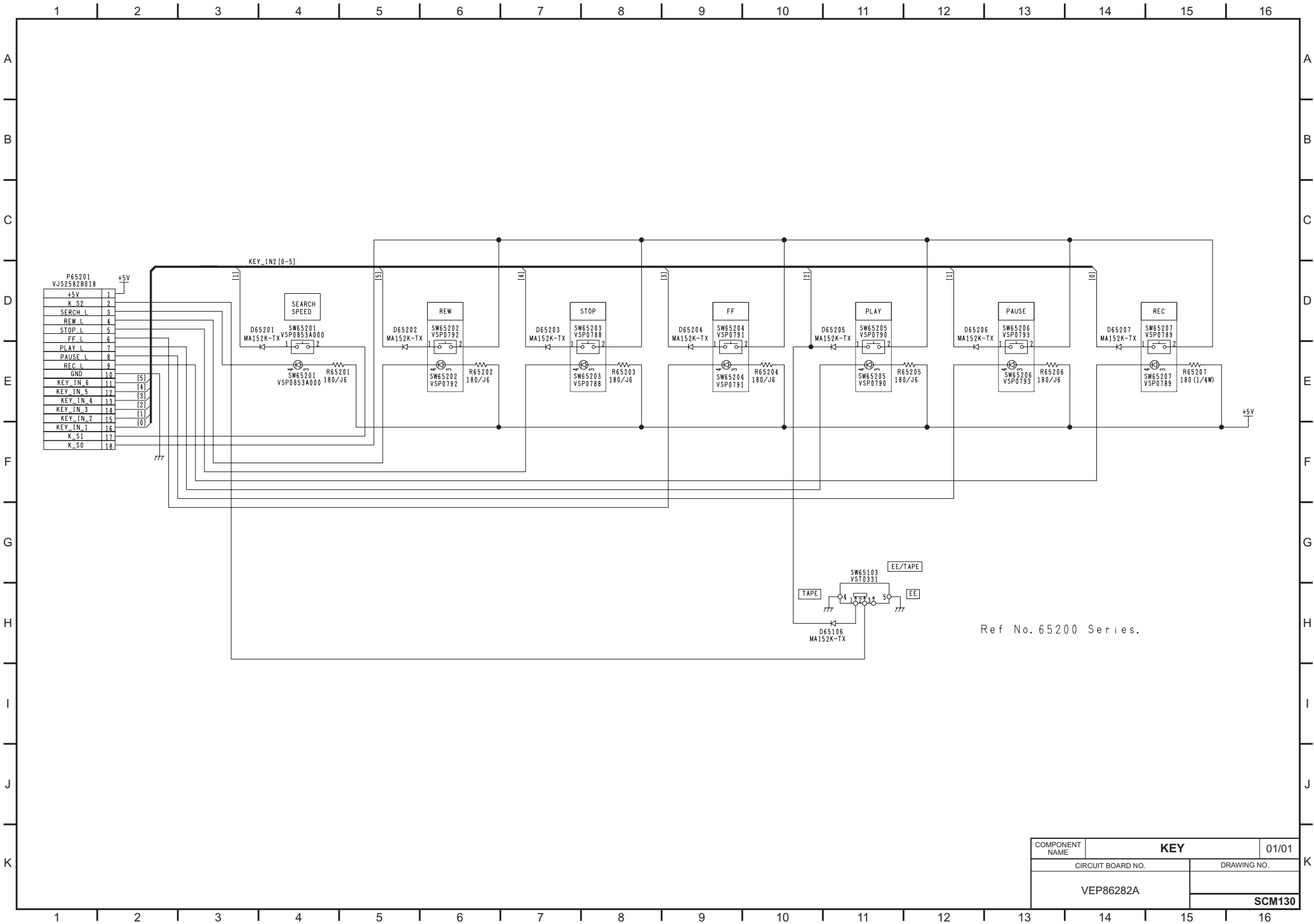


REF. NO.	T 向け	P 向け	備考
1.201	PAT	VL P145-T	CH1_OUT
1.202	VL P145-T	PAT	
1.203	PAT	VL P145-T	
1.204	VL P145-T	PAT	
1.206	PAT	VL P145-T	CH3_OUT
1.207	VL P145-T	PAT	
1.208	PAT	VL P145-T	
1.209	VL P145-T	PAT	
1.211	VL P145-T	PAT	CH1_IN
1.212	PAT	VL P145-T	
1.213	VL P145-T	PAT	
1.214	PAT	VL P145-T	
1.216	VL P145-T	PAT	CH3_IN
1.217	PAT	VL P145-T	
1.218	VL P145-T	PAT	
1.219	PAT	VL P145-T	
1.220	VL P145-T	PAT	CH2_OUT
1.222	PAT	VL P145-T	
1.223	VL P145-T	PAT	
1.224	PAT	VL P145-T	
1.226	VL P145-T	PAT	CH4_OUT
1.227	PAT	VL P145-T	
1.228	VL P145-T	PAT	
1.229	PAT	VL P145-T	
1.230	VL P145-T	PAT	CH2_IN
1.232	PAT	VL P145-T	
1.233	VL P145-T	PAT	
1.234	VL P145-T	PAT	
1.236	PAT	VL P145-T	CH4_IN
1.237	VL P145-T	PAT	
1.238	VL P145-T	PAT	
1.239	PAT	VL P145-T	
1.201	VJ53417	VJP3417	CH1_OUT
1.202	VJ53417	VJP3417	CH1_OUT
1.203	VJP3417	VJ53417	CH3_IN
1.204	VJP3417	VJ53417	CH2_OUT
1.205	VJ53417	VJP3417	CH3_OUT
1.206	VJ53417	VJP3417	CH4_OUT
1.207	VJP3417	VJ53417	CH2_IN
1.208	VJ53417	VJP3417	CH2_IN

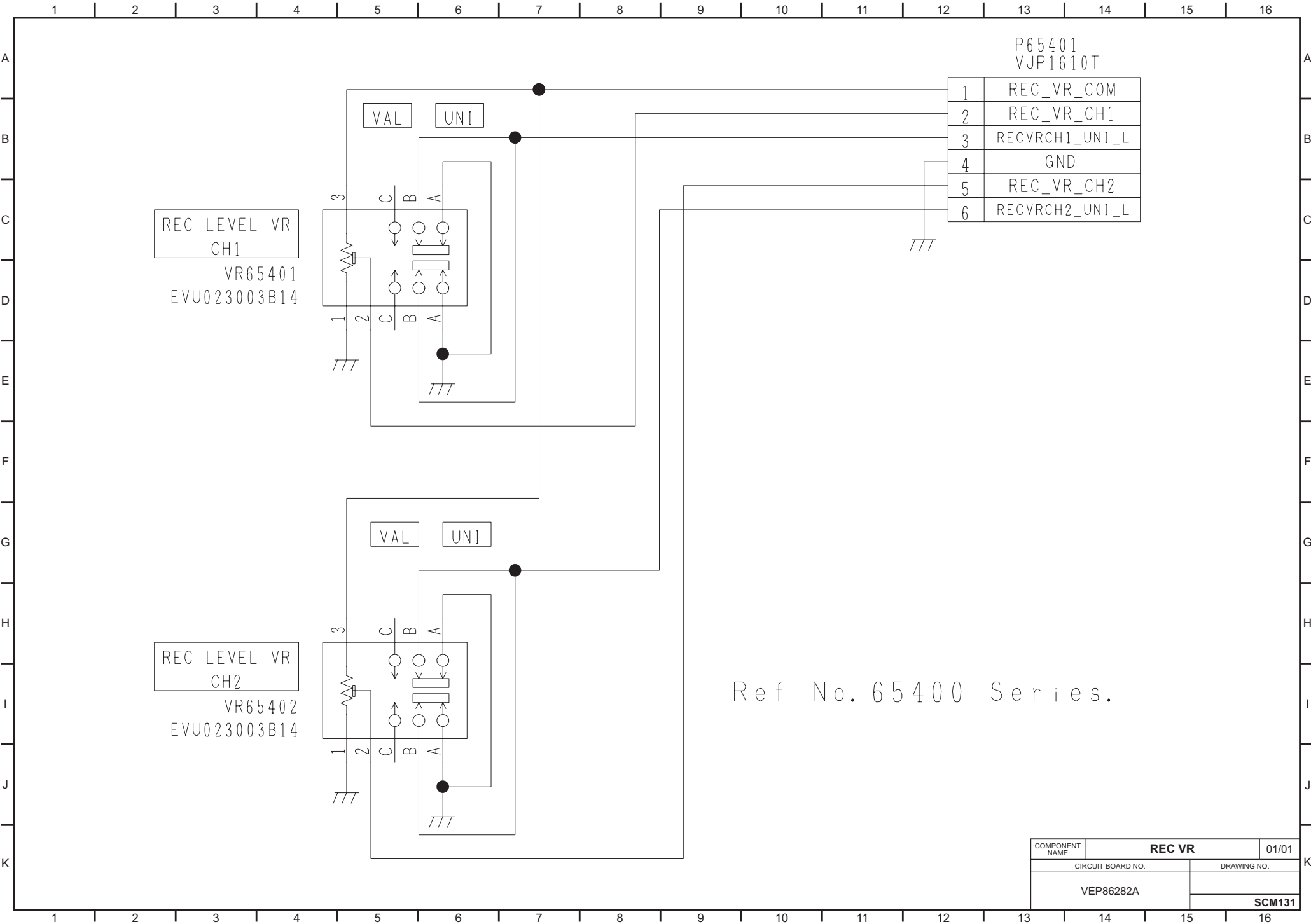
	P201 VJ53421A02
1	CH1_OUT_H
2	CH1_OUT_C
3	CH1_OUT_G
4	CH2_OUT_H
5	CH2_OUT_C
6	CH2_OUT_G
7	AA_GND
8	CH3_OUT_H
9	CH3_OUT_C
10	CH3_OUT_G
11	CH4_OUT_H
12	CH4_OUT_C
13	CH4_OUT_G
14	AA_GND
15	CH1_IN_H
16	CH1_IN_C
17	CH1_IN_G
18	AA_GND
19	CH2_IN_H
20	CH2_IN_C
21	CH2_IN_G
22	AA_GND
23	CH3_IN_H
24	CH3_IN_C
25	CH3_IN_G
26	CH4_IN_G
27	CH4_IN_H
28	CH4_IN_C

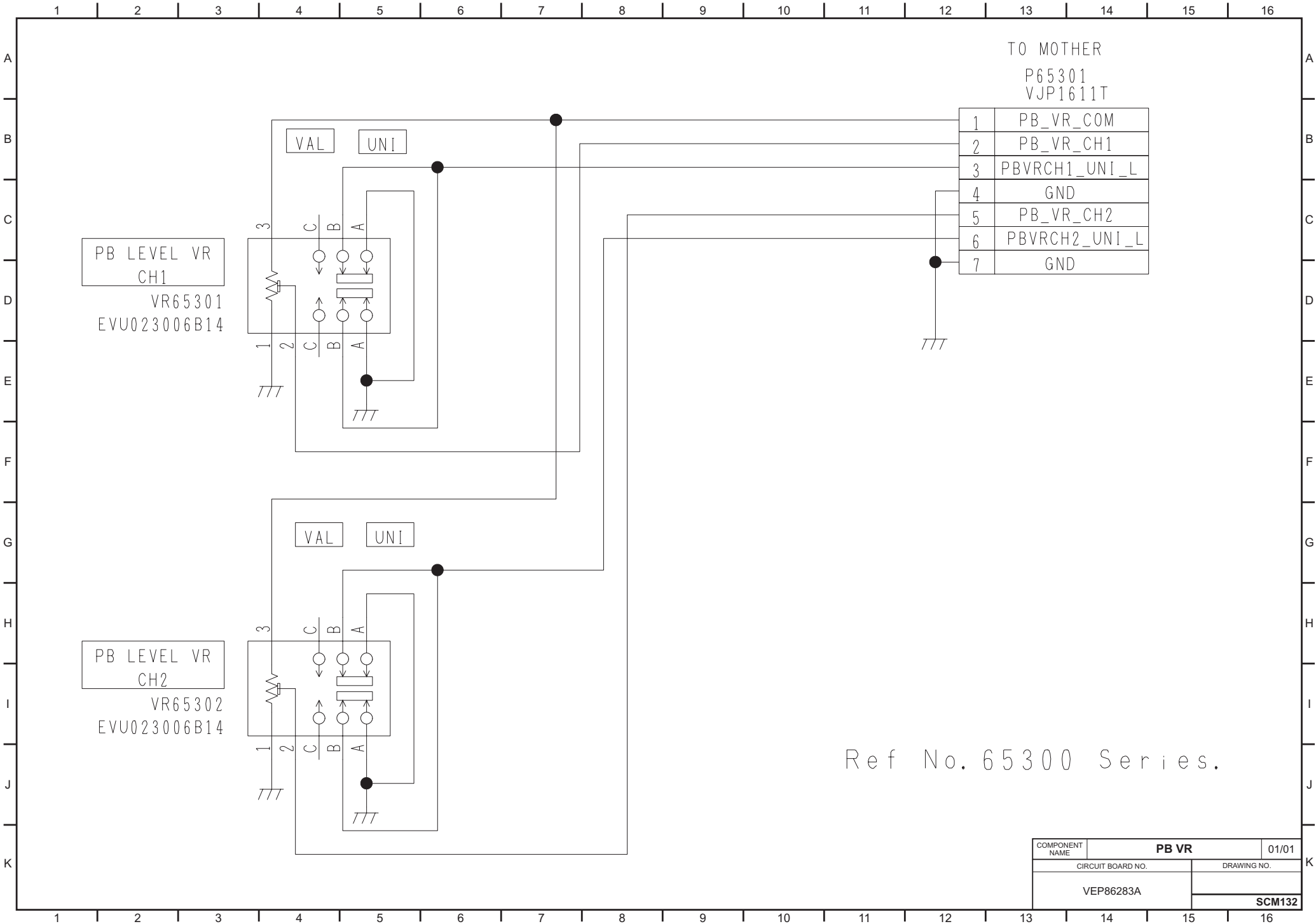
Ref No. 200 Series.

COMPONENT NAME	A_JACK		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84369B		KR4J95	
		SCM129	



COMPONENT NAME	KEY		01/01
	CIRCUIT BOARD NO.		DRAWING NO.
VEP86282A			
		SCM130	



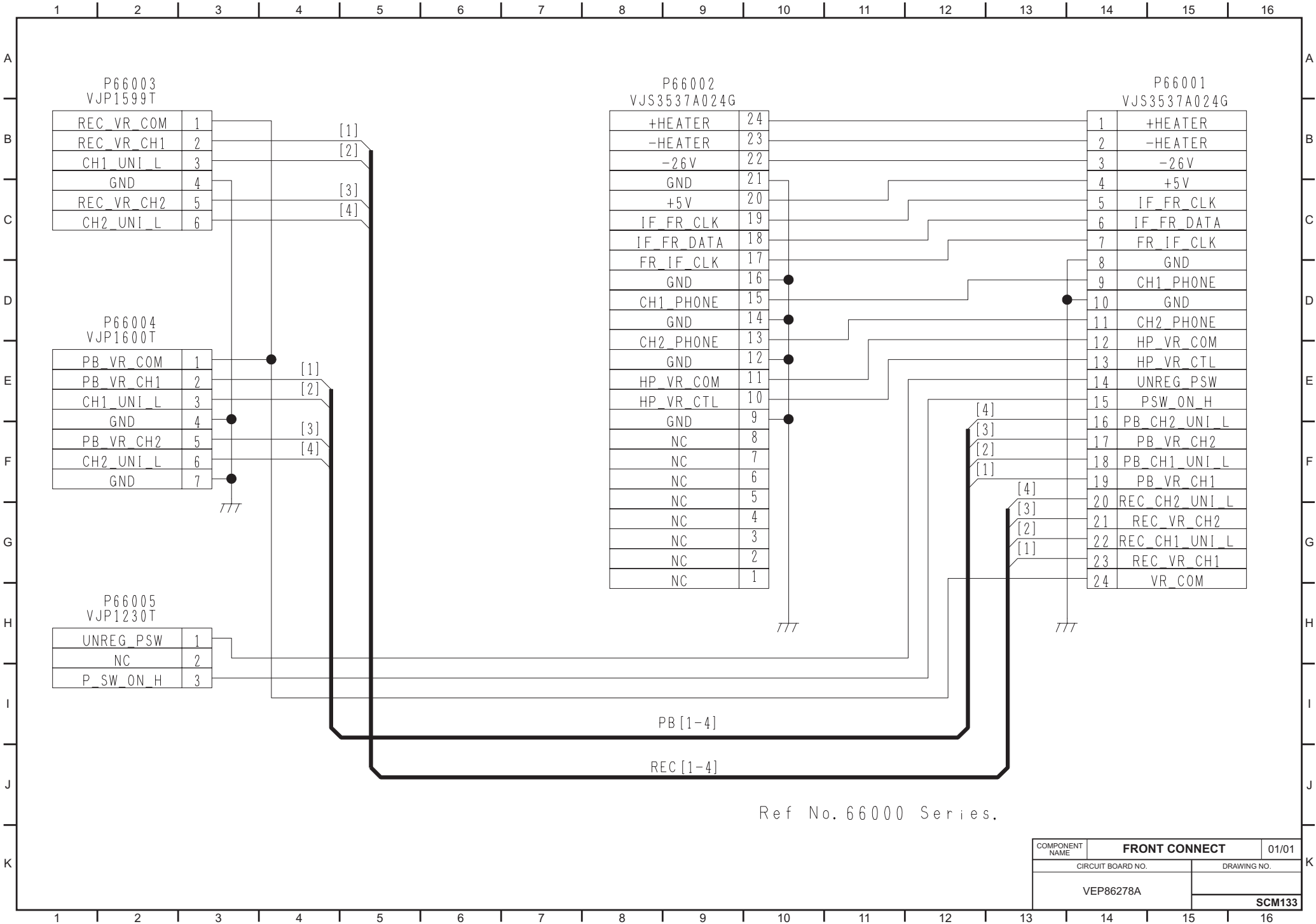


TO MOTHER
P65301
VJP1611T

1	PB_VR_COM
2	PB_VR_CH1
3	PBVRCH1_UNI_L
4	GND
5	PB_VR_CH2
6	PBVRCH2_UNI_L
7	GND

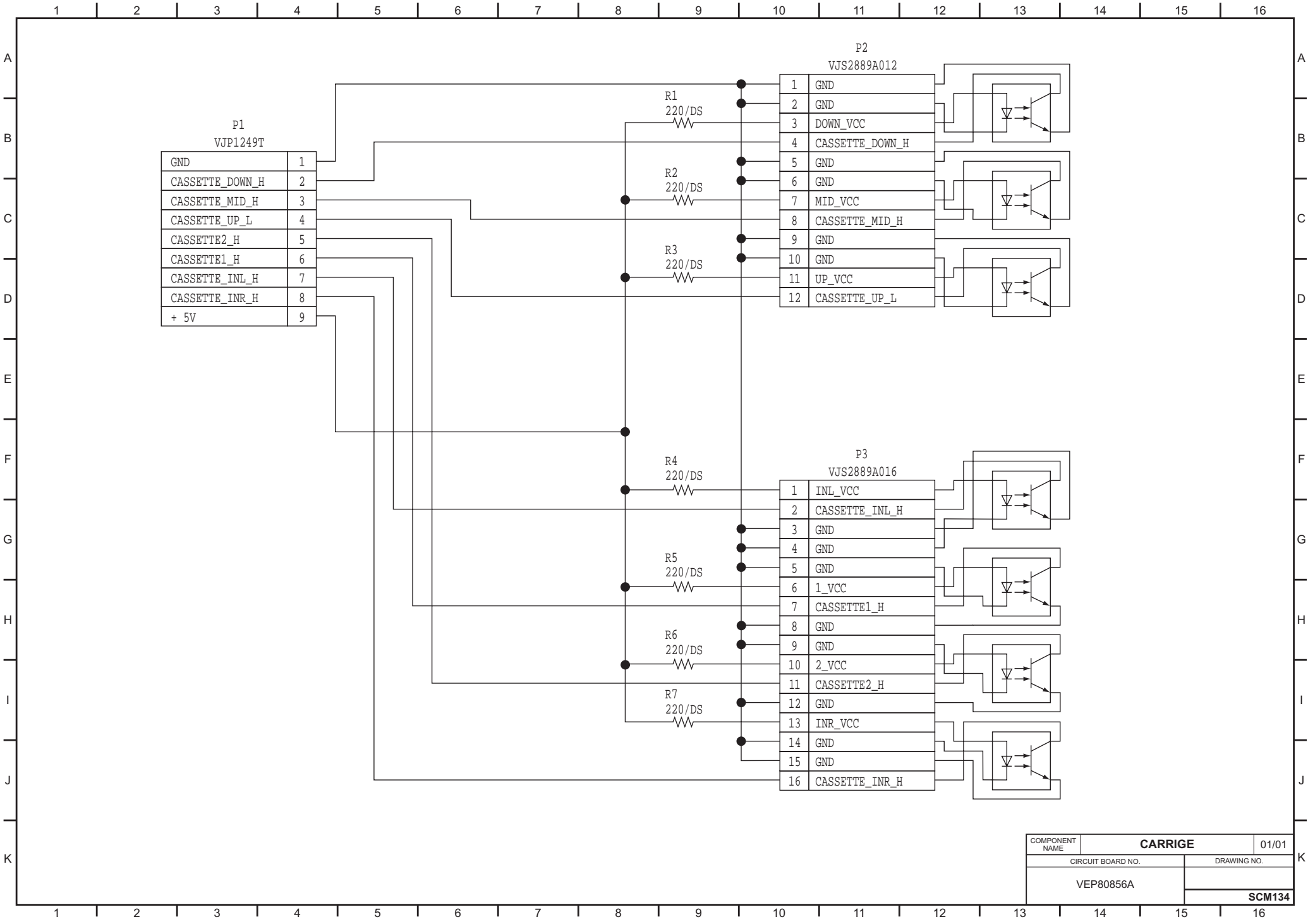
Ref No. 65300 Series.

COMPONENT NAME	PB VR		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86283A		SCM132	



Ref No. 66000 Series.

COMPONENT NAME	FRONT CONNECT		01/01
	CIRCUIT BOARD NO.		DRAWING NO.
VEP86278A		SCM133	



COMPONENT NAME	CARRIGE		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80856A			
		SCM134	

SECTION 8

CIRCUIT BOARD DIAGRAMS

NOTE:


BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 9

CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

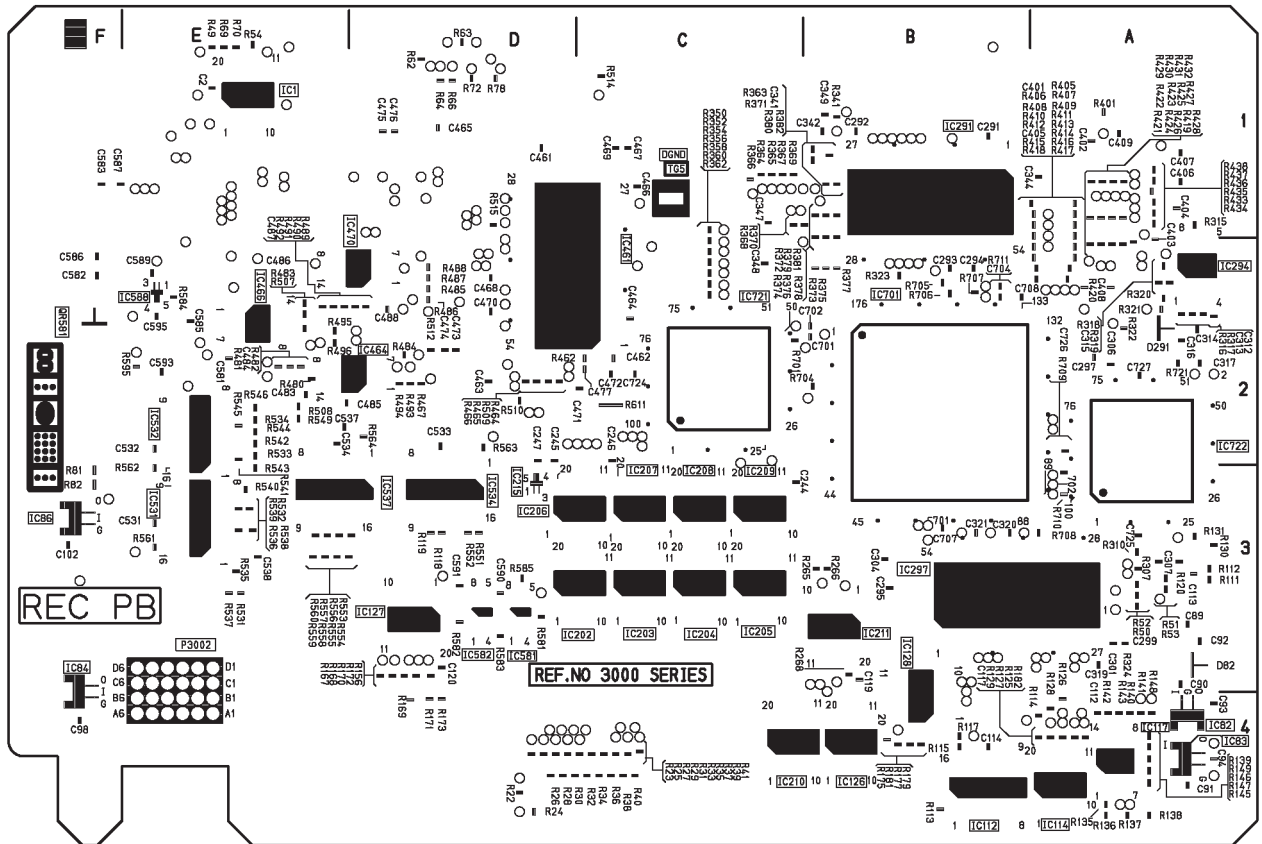
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

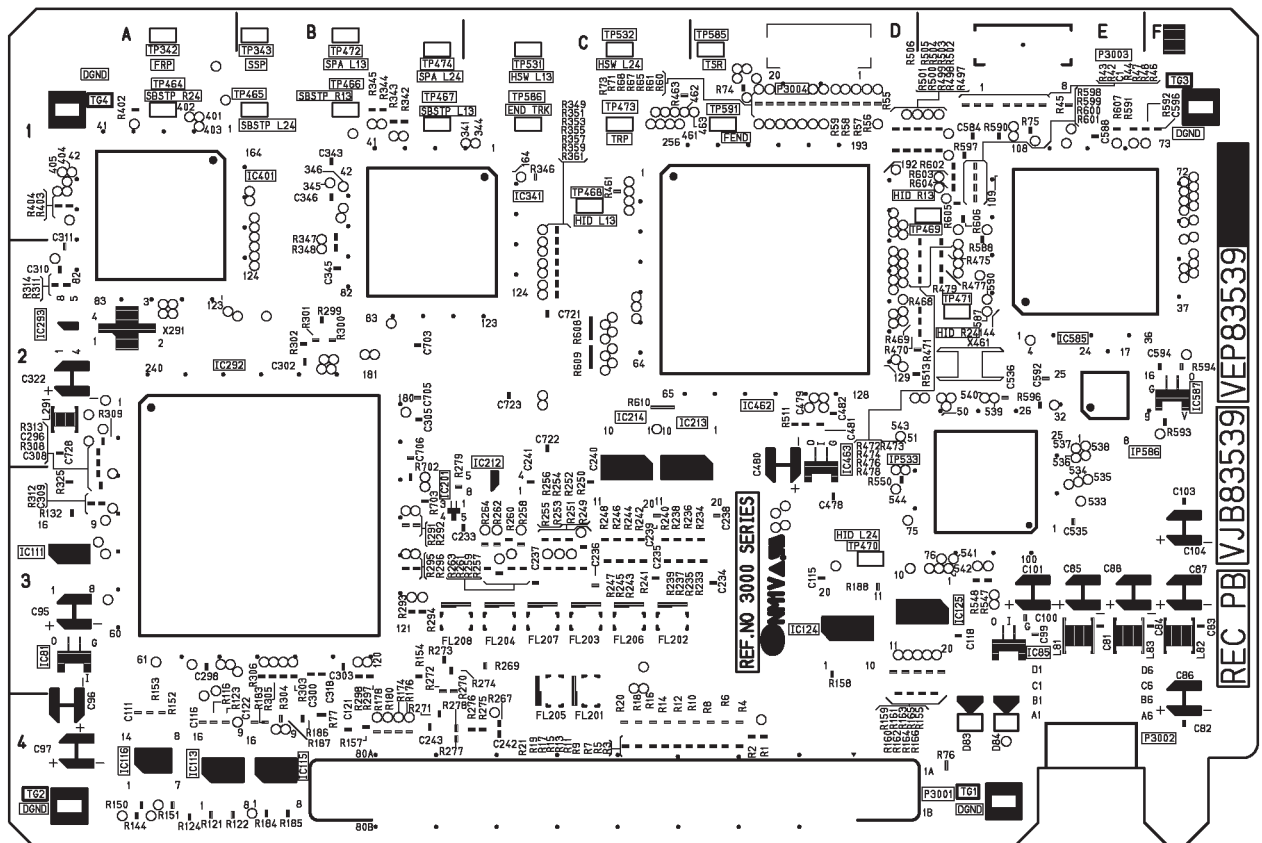
REC/PB P.C. BOARD (VEP83539A).....	CBA-1
VIDEO OUT P.C. BOARD (VEP83537A).....	CBA-2
DOWN CONV P.C. BOARD (VEP83538A).....	CBA-3
SDI P.C. BOARD (VEP83536A)	CBA-4
RF/EQ P.C. BOARD (VEP85194A)	CBA-5
RF/CUE P.C. BOARD (VEP85159A)	CBA-6
A PROC P.C. BOARD (VEP84367A)	CBA-7
A I/O P.C. BOARD (VEP84368A)	CBA-8
SYS CON P.C. BOARD (VEP86313A)	CBA-9
SERVO P.C. BOARD (VEP82236A).....	CBA-10
POWER 1 BOARD (VEP81203B).....	CBA-11
POWER 2 P.C. BOARD (VEP81219A).....	CBA-13
POWER 3 P.C. BOARD (VEP81217A).....	CBA-14
SUB POWER 1 P.C. BOARD (VEP81224A)	CBA-15

POWER CONNECT P.C. BOARD (VEP80A88A)	CBA-15
MOTHER P.C. BOARD (VEP80B80A)	CBA-16
FRONT P.C. BOARD (VEP86309A).....	CBA-18
V JACK P.C. BOARD (VEP83540A).....	CBA-20
A JACK P.C. BOARD (VEP84369B).....	CBA-21
KYE P.C. BOARD (VEP86281A).....	CBA-21
REC VR P.C. BOARD (VEP86282A)	CBA-22
PB VR P.C. BOARD (VEP86283A)	CBA-22
FRONT CONNECT P.C. BOARD (VEP86278A)	CBA-22

REC/PB P.C. BOARD (VEP83539A)

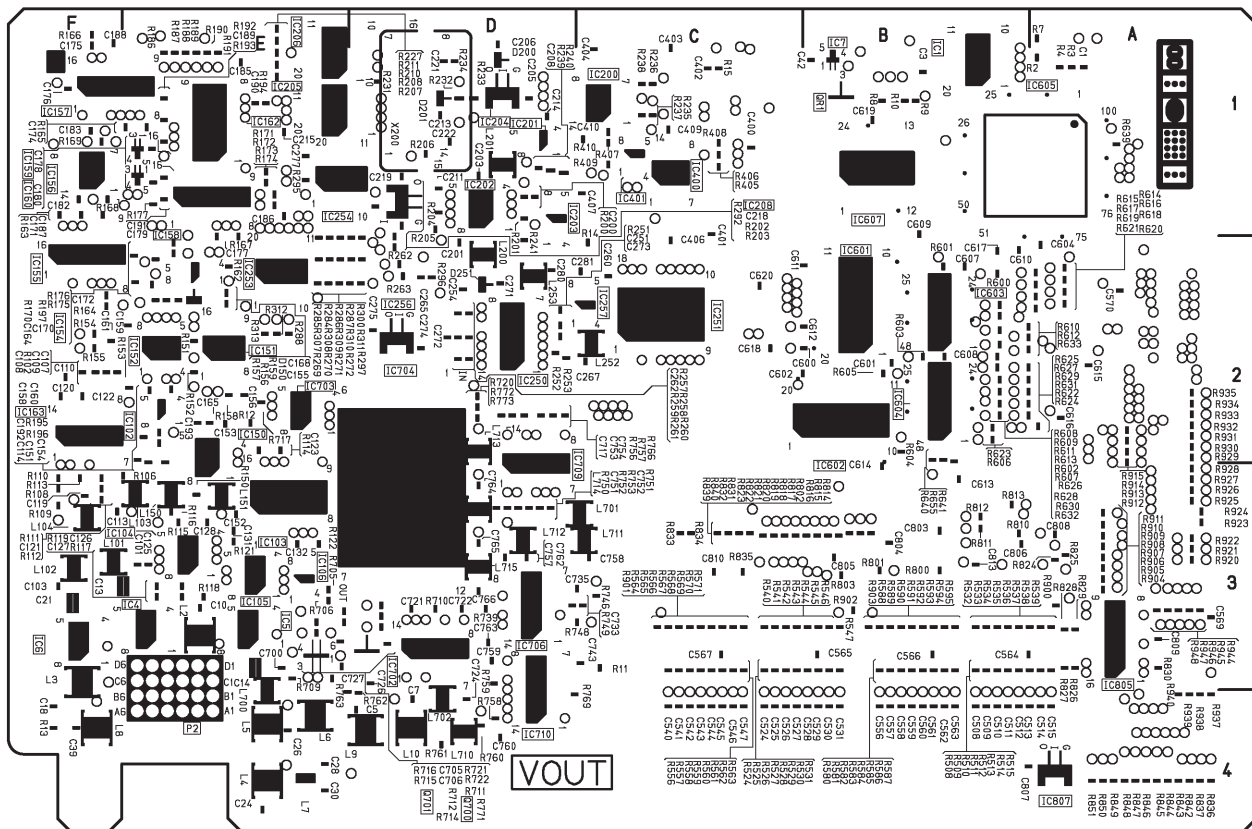


(FOIL SIDE)

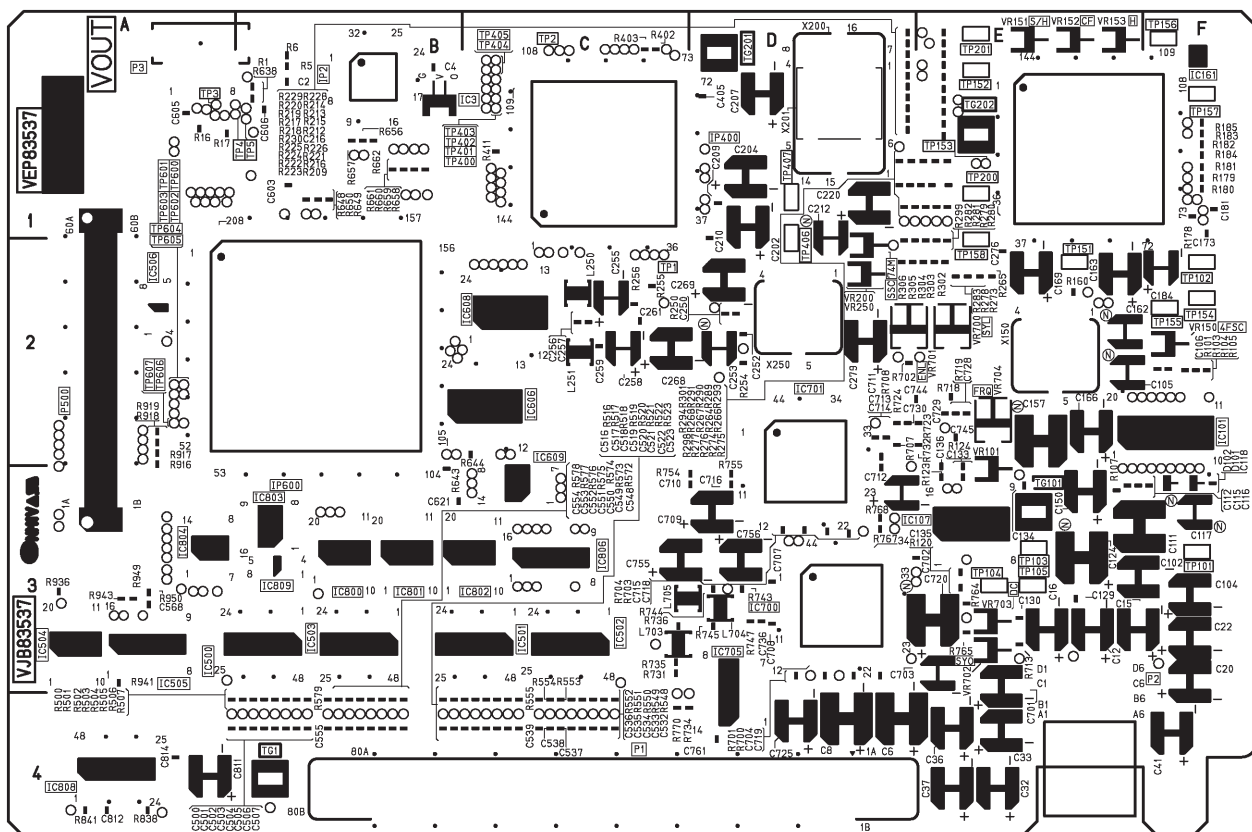


(COMPONENT SIDE)

VIDEO OUT P.C. BOARD (VEP83537A)



(FOIL SIDE)



(COMPONENT SIDE)

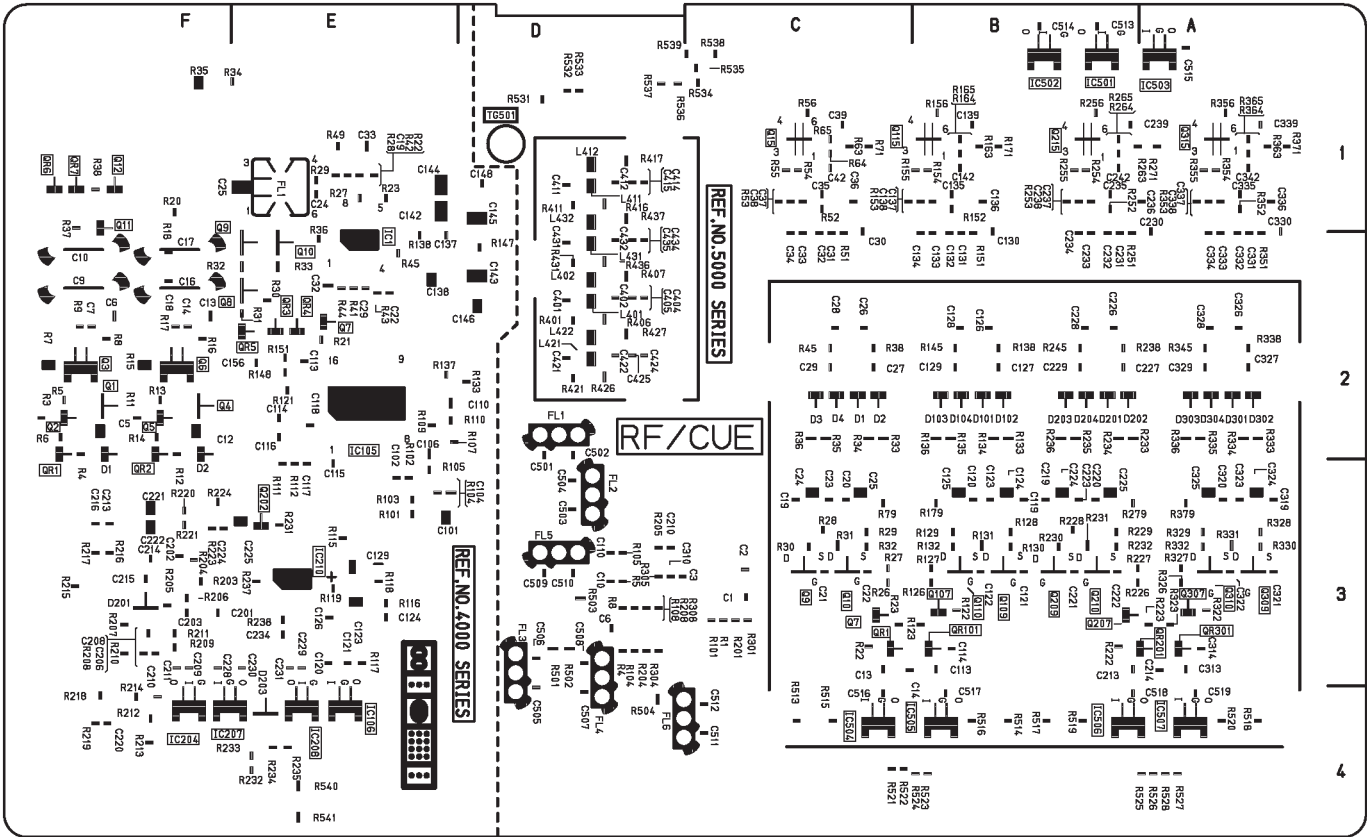
CBA-3

CBA-4

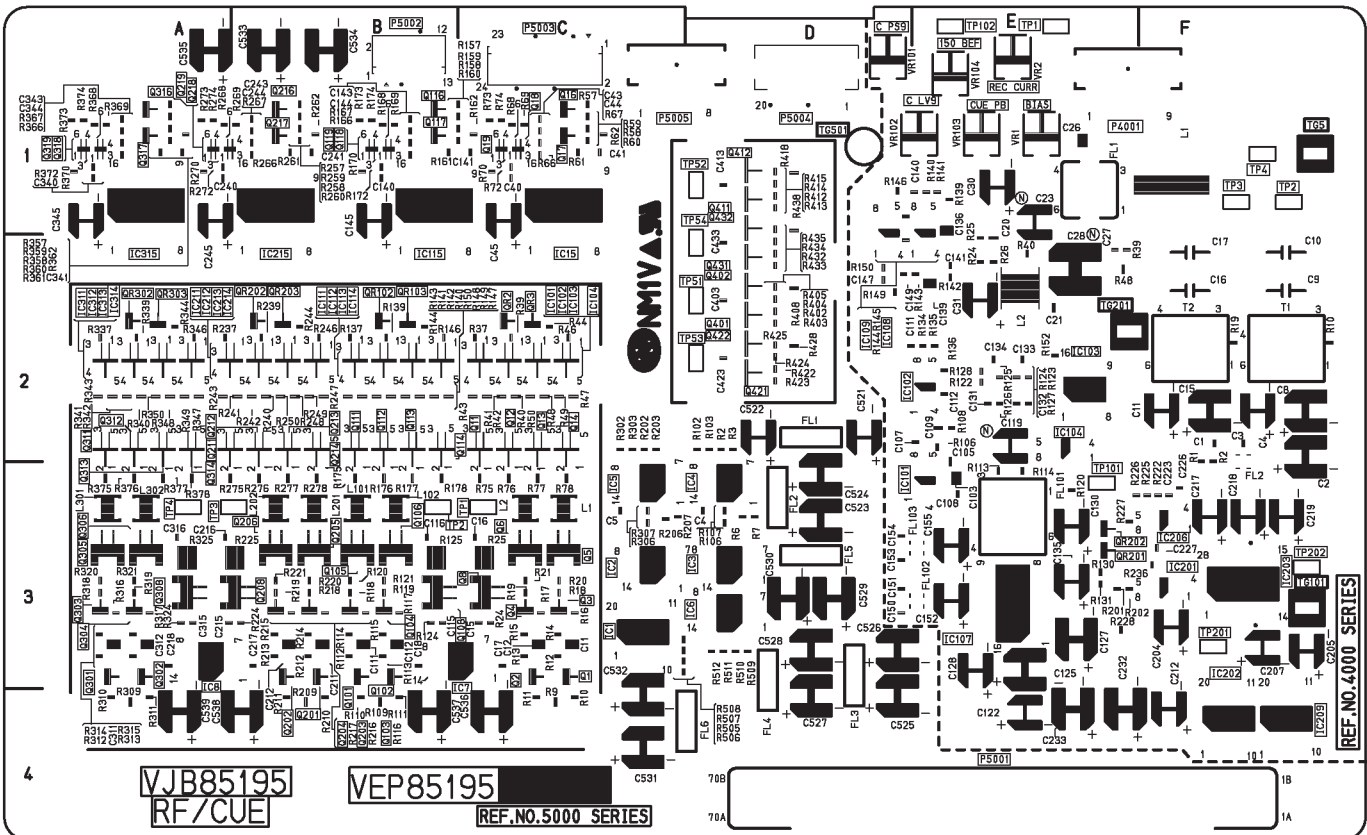
The image shows a complex electronic circuit board layout for the REFNO 5000 SERISE. The board is populated with numerous integrated circuits (ICs), resistors (R), capacitors (C), and other components. Key components include the REFNO 5000 SERISE IC, various logic and control ICs, and a large RF/EQ section. The layout includes a top layer with component footprints and a bottom layer with component values and labels. A coordinate grid (A-E, 1-5) is visible in the top left corner.

CBA-5

RF/CUE P.C. BOARD (VEP85159A)

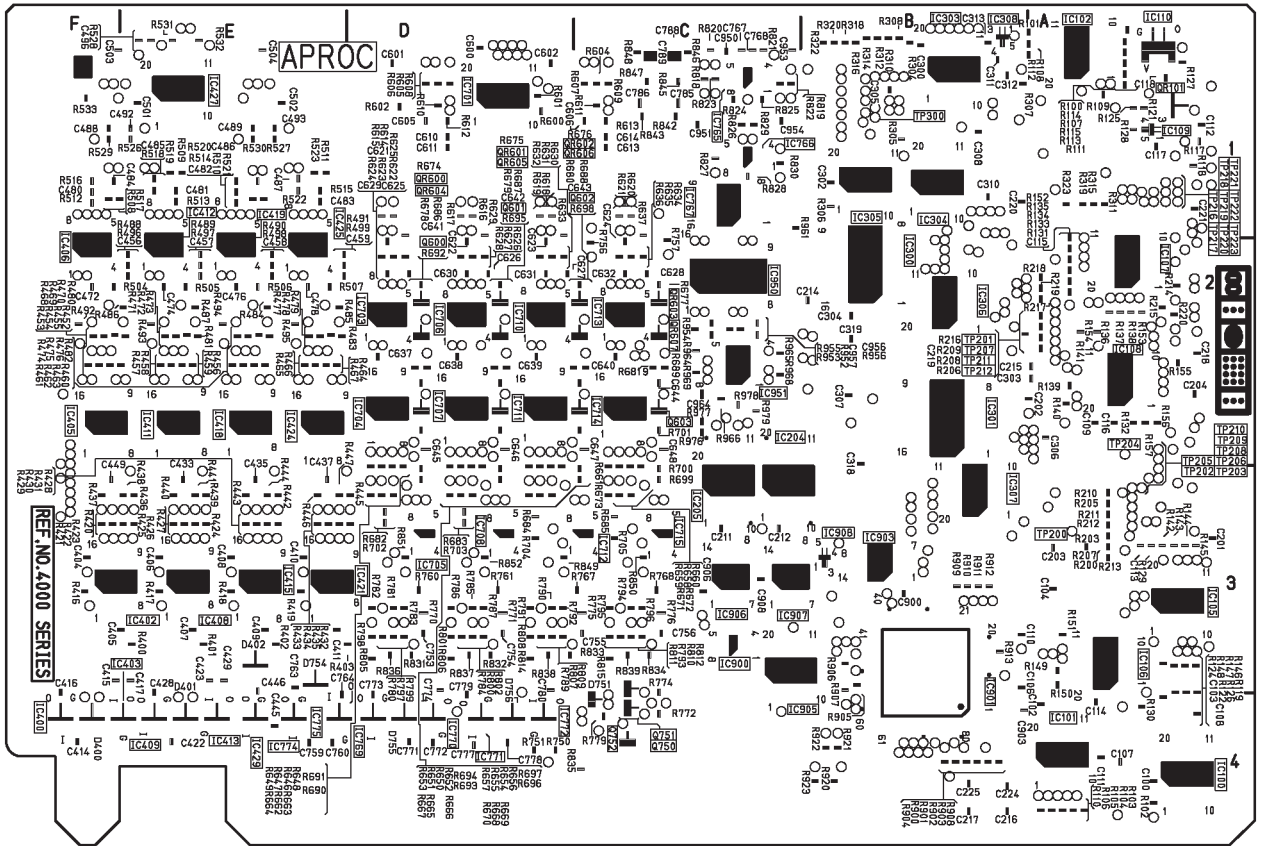


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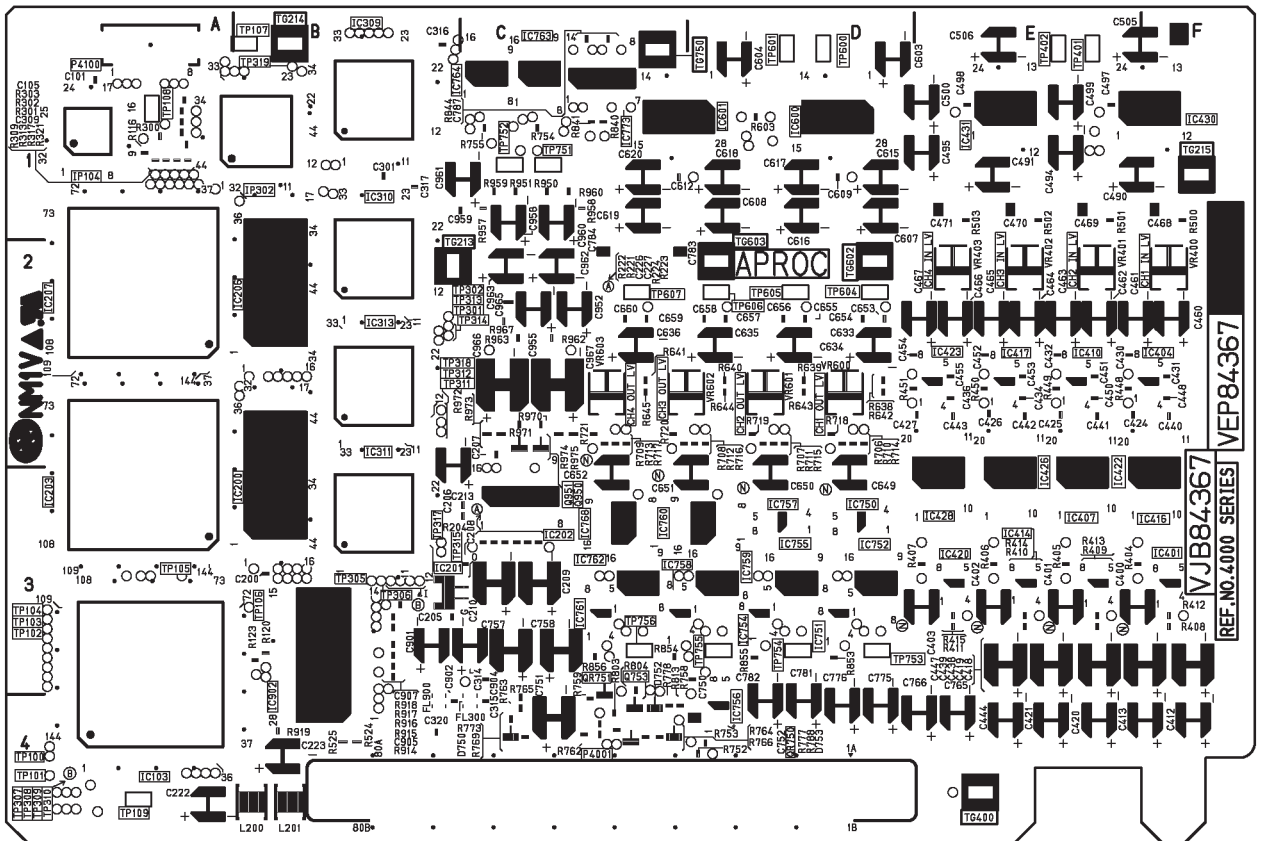


(COMPONENT SIDE)

A PROC P.C. BOARD (VEP84367A)

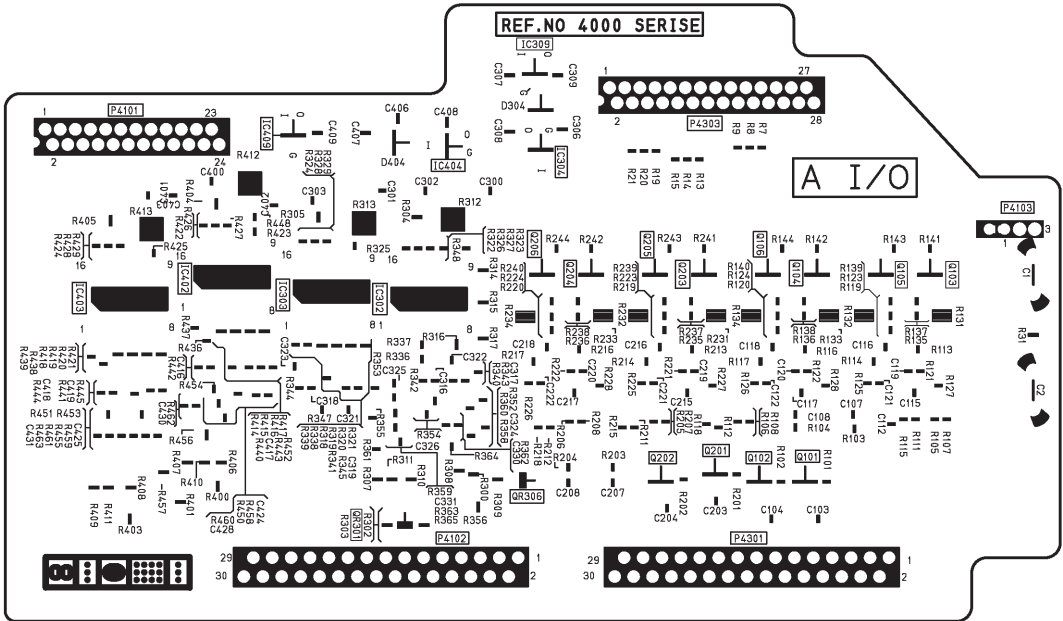


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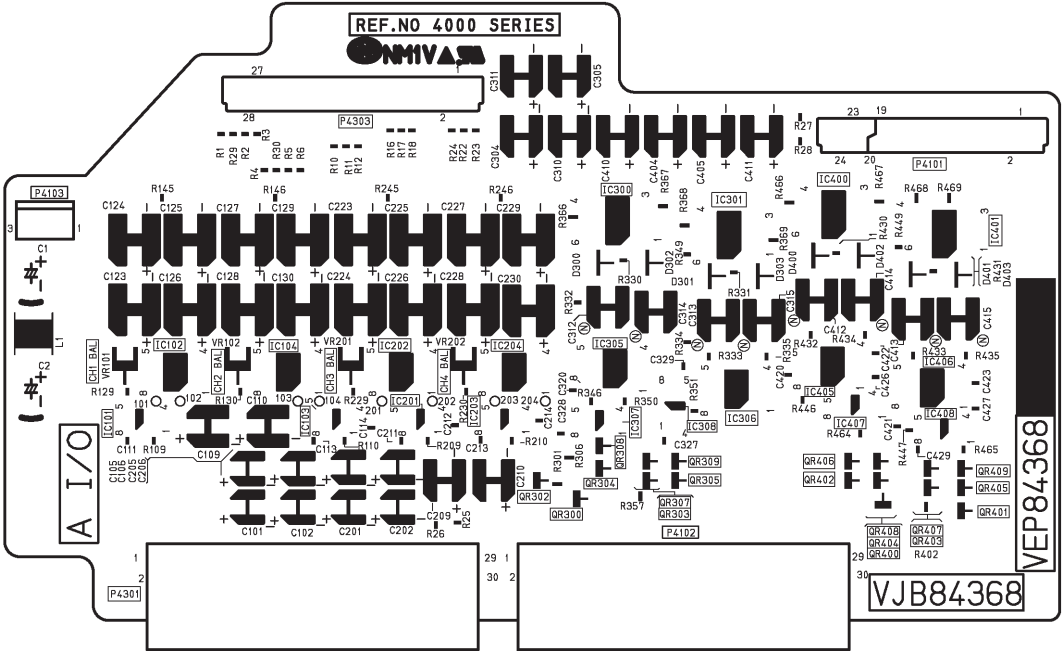


(COMPONENT SIDE)

A I/O P.C. BOARD (VEP84368A)

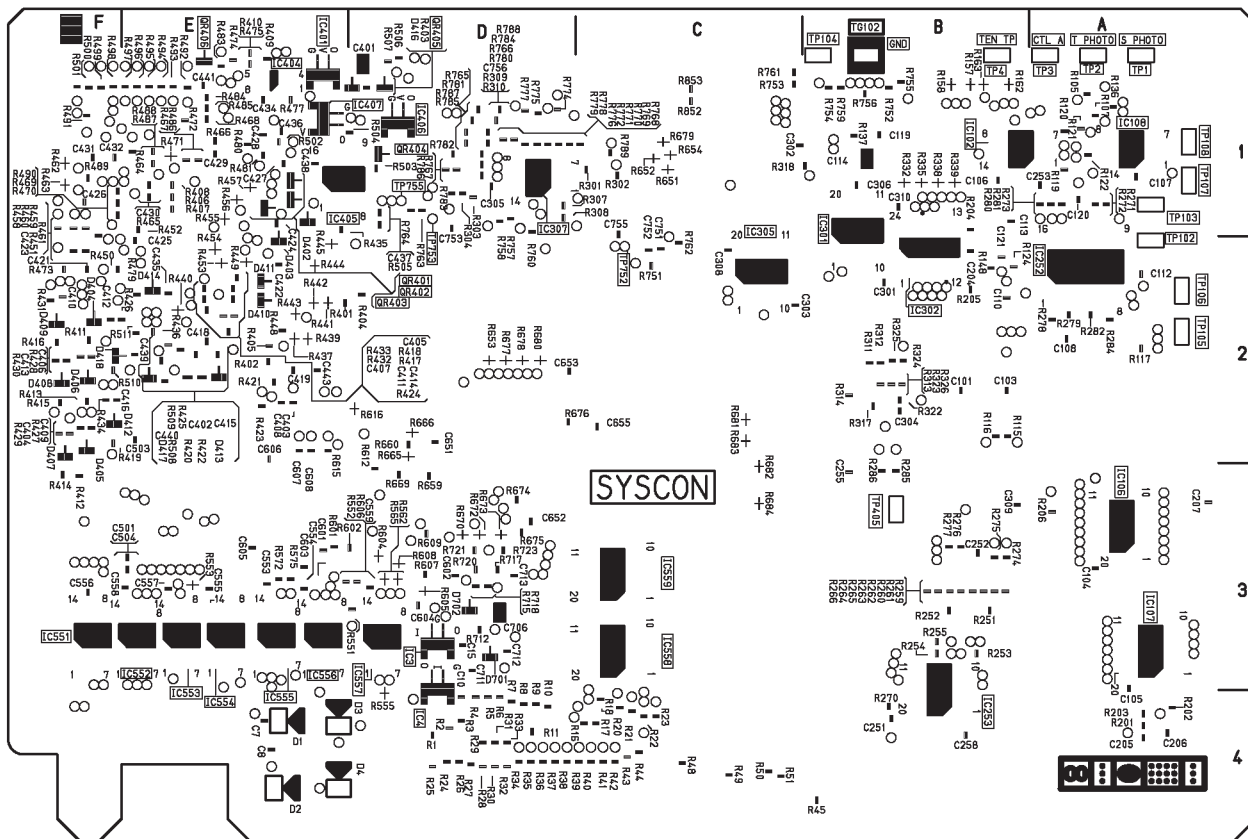


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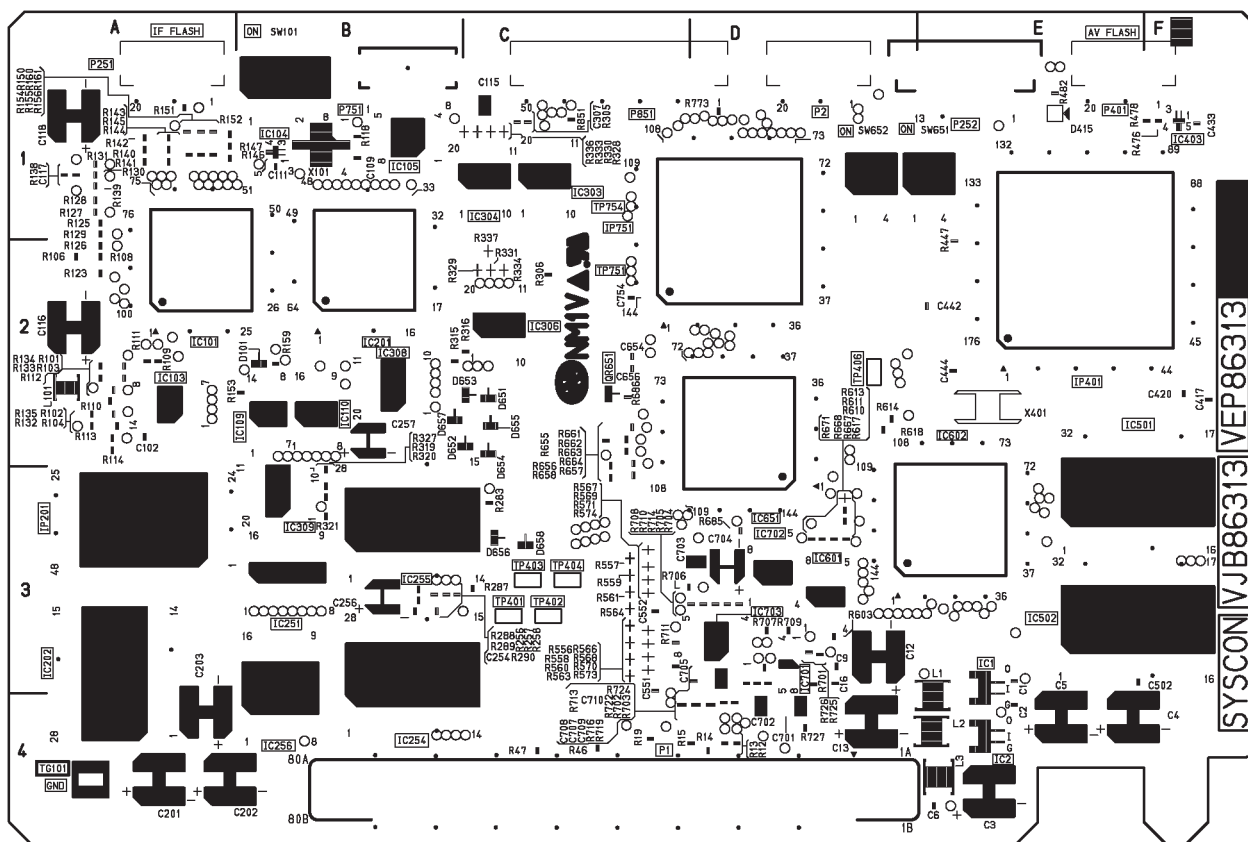


(COMPONENT SIDE)

SYSCON P.C. BOARD (VEP86313A)



(FOIL SIDE)



(COMPONENT SIDE)

(COMPONENT SIDE)

POWER 1 BOARD (VEP81203B)

JAPAN ONLY

警告



感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。
+ 感電ややけどの可能性があります。

① 警告

△印の部品は安全上重要な部品です。

交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

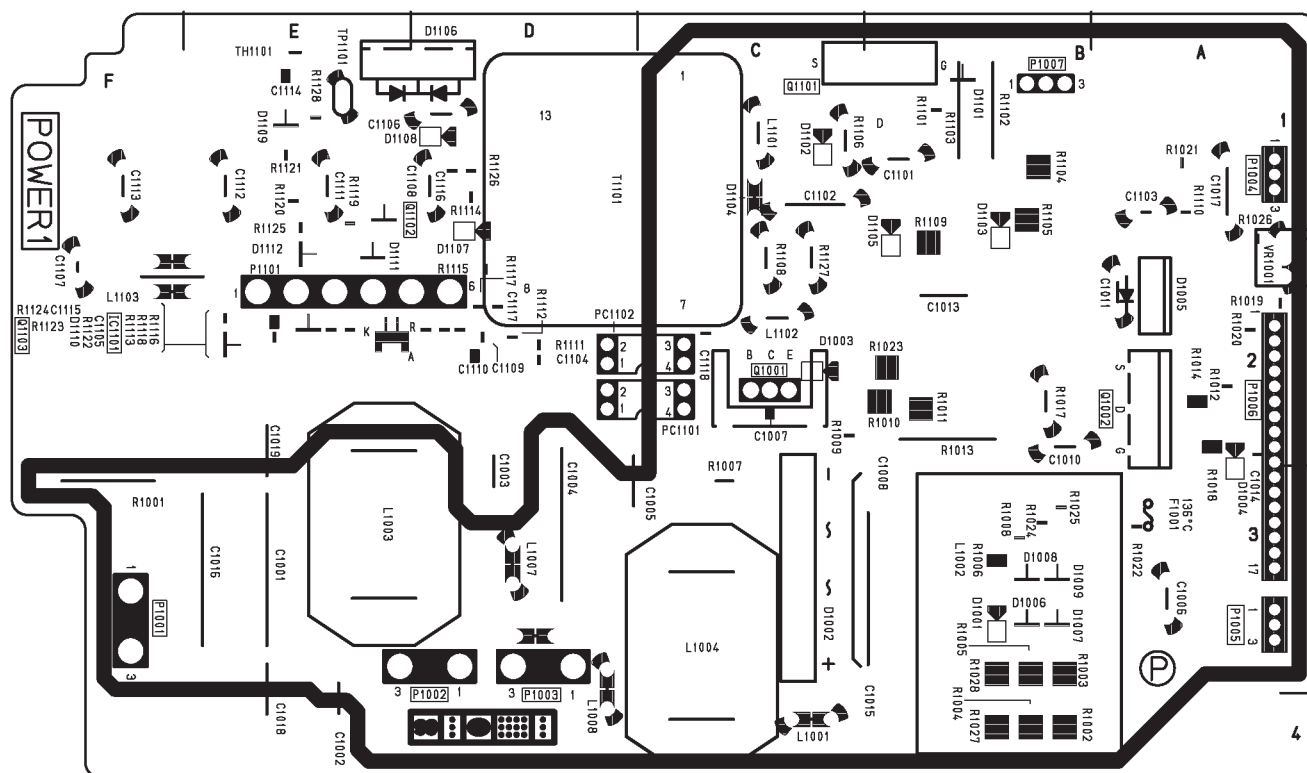
- ② 内は充電部です。AC100V が加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。
- ③ 部品交換時には、電源プラグをぬいてから行ってください。
- ④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。
- ⑤ 部品品番は、部品価格表で確認の上交換ください。

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK △ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



(FOIL SIDE)

POWER 1 BOARD (VEP81203B)

JAPAN ONLY

警告



感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。
+ 感電ややけどの可能性があります。

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内は充電部です。AC 100V が加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③

部品交換時には、電源プラグをぬいてから行ってください。


④

一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤

部品品番は、部品価格表で確認の上交換ください。

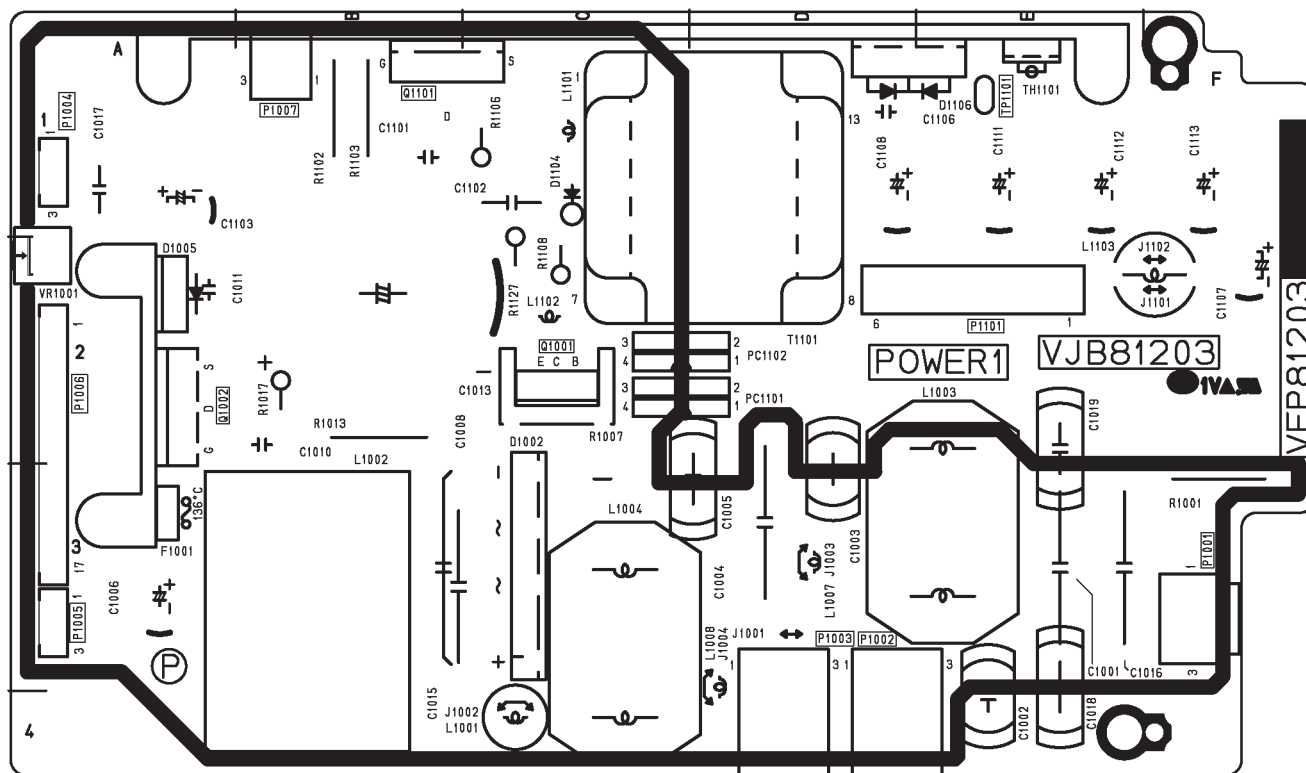
CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

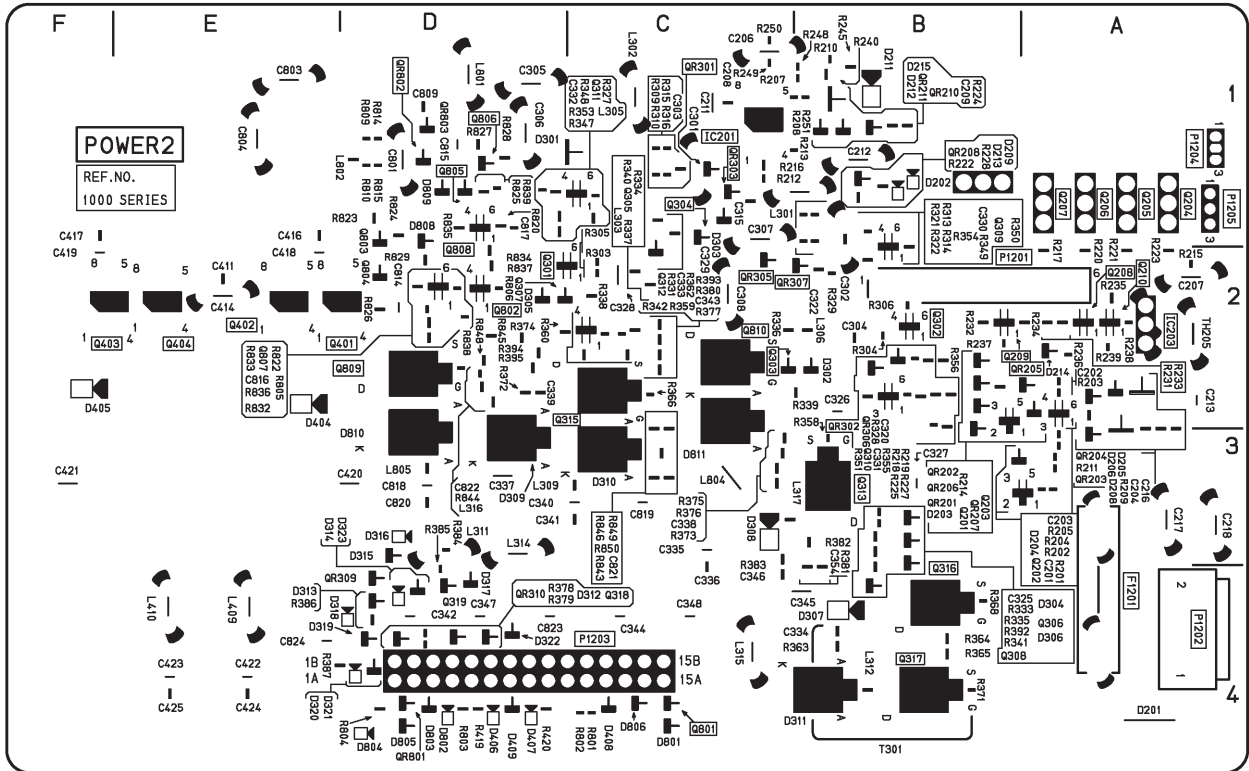
IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK △ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

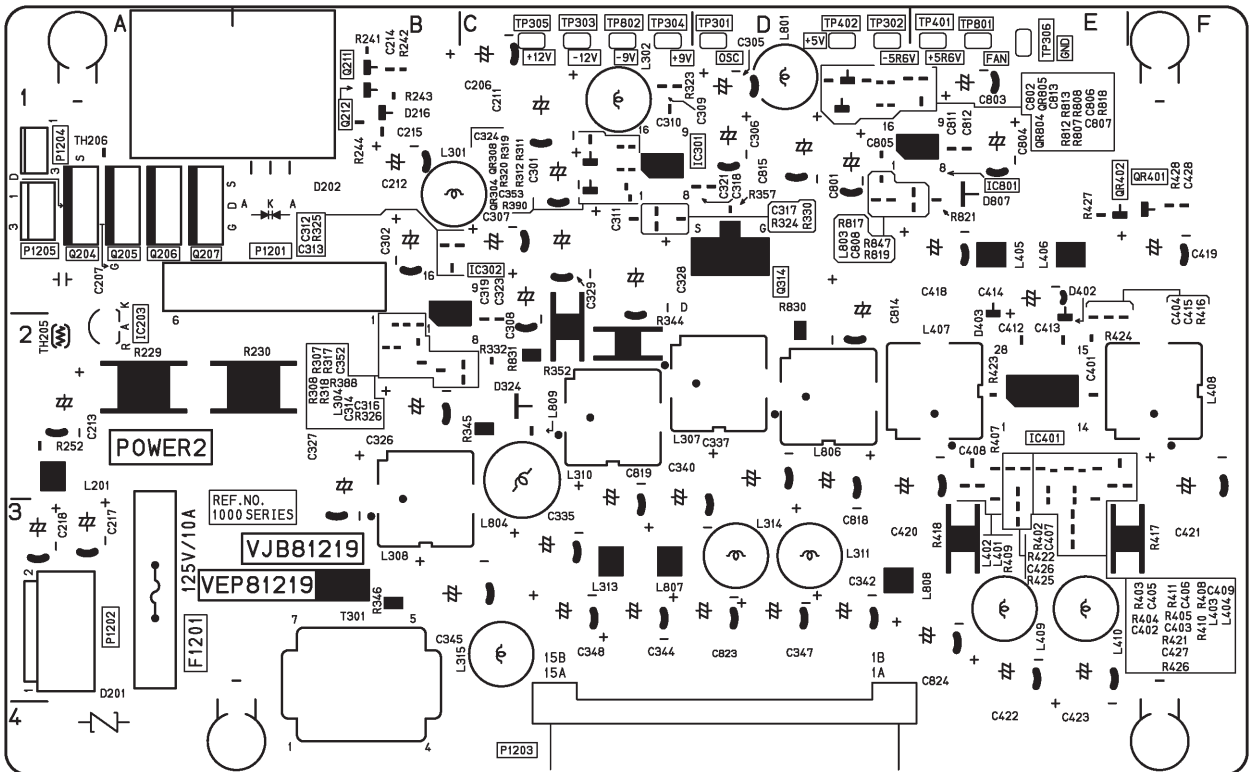


(COMPONENT SIDE)

POWER 2 P.C. BOARD (VEP81219A)

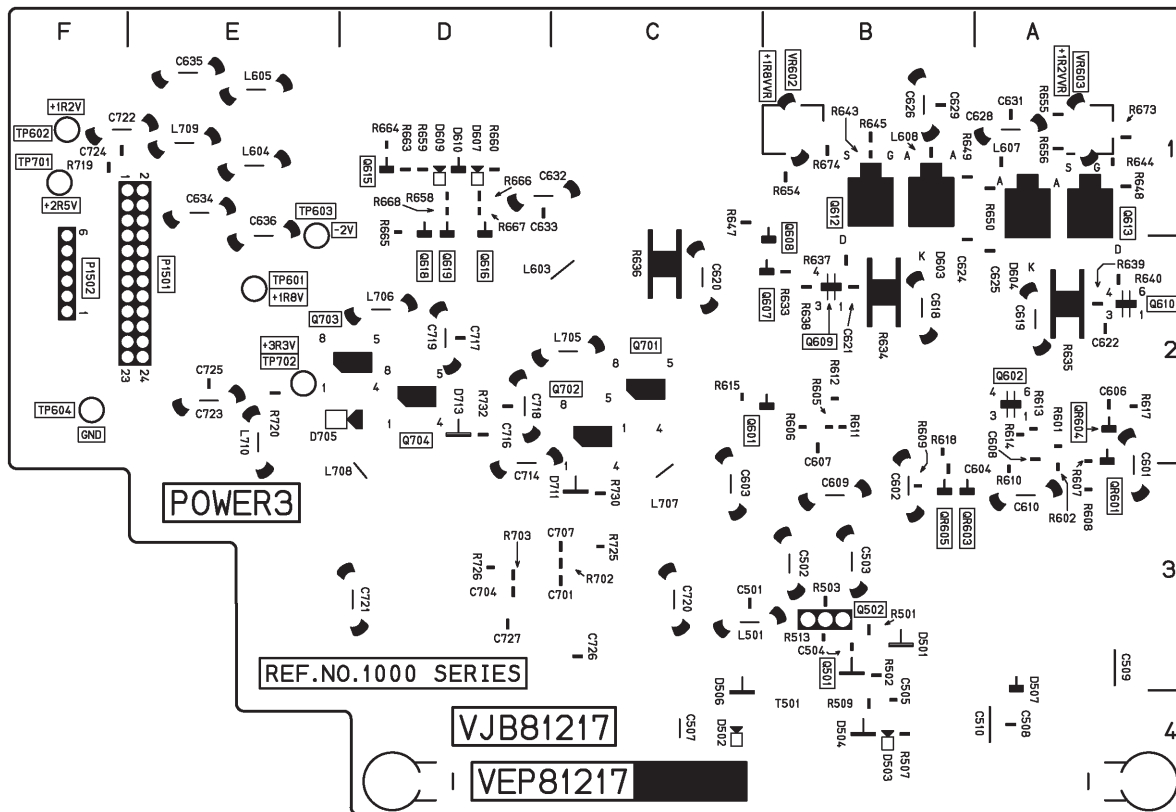


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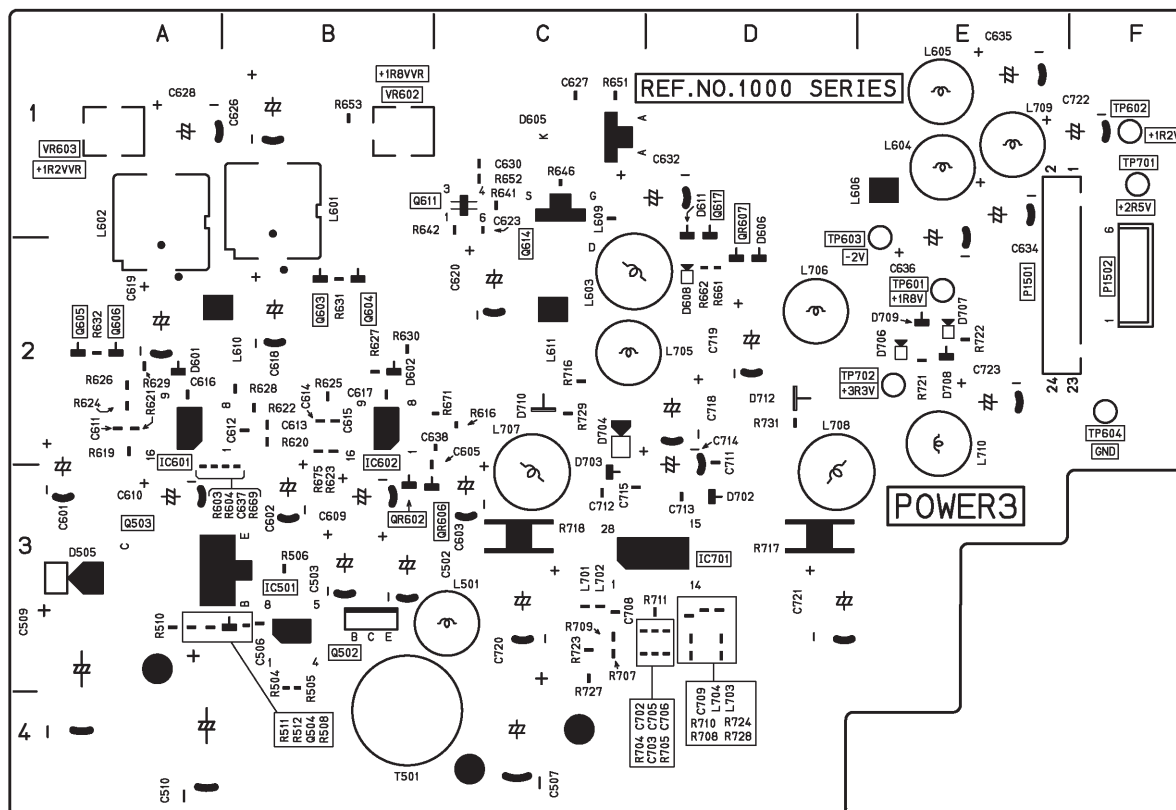


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POWER 3 P.C. BOARD (VEP81217A)

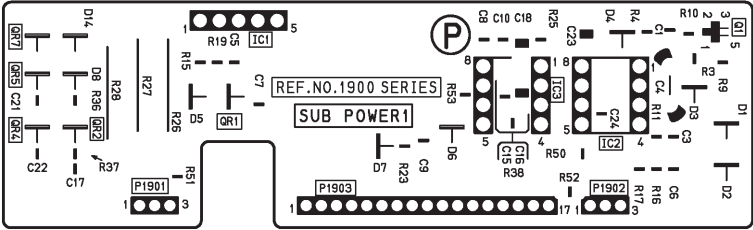


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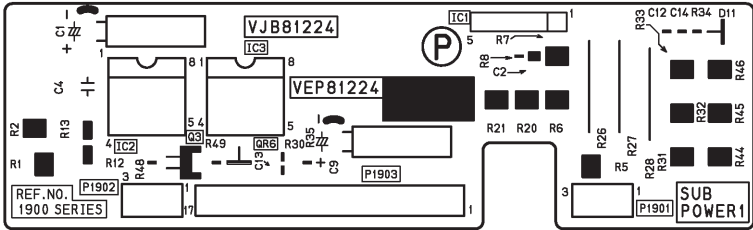


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SUB POWER 1 P.C. BOARD (VEP81224A)

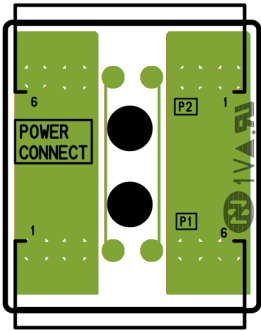


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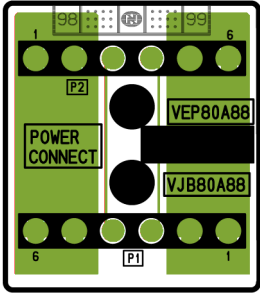


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POWER CONNECT P.C. BOARD (VEP80A88A)

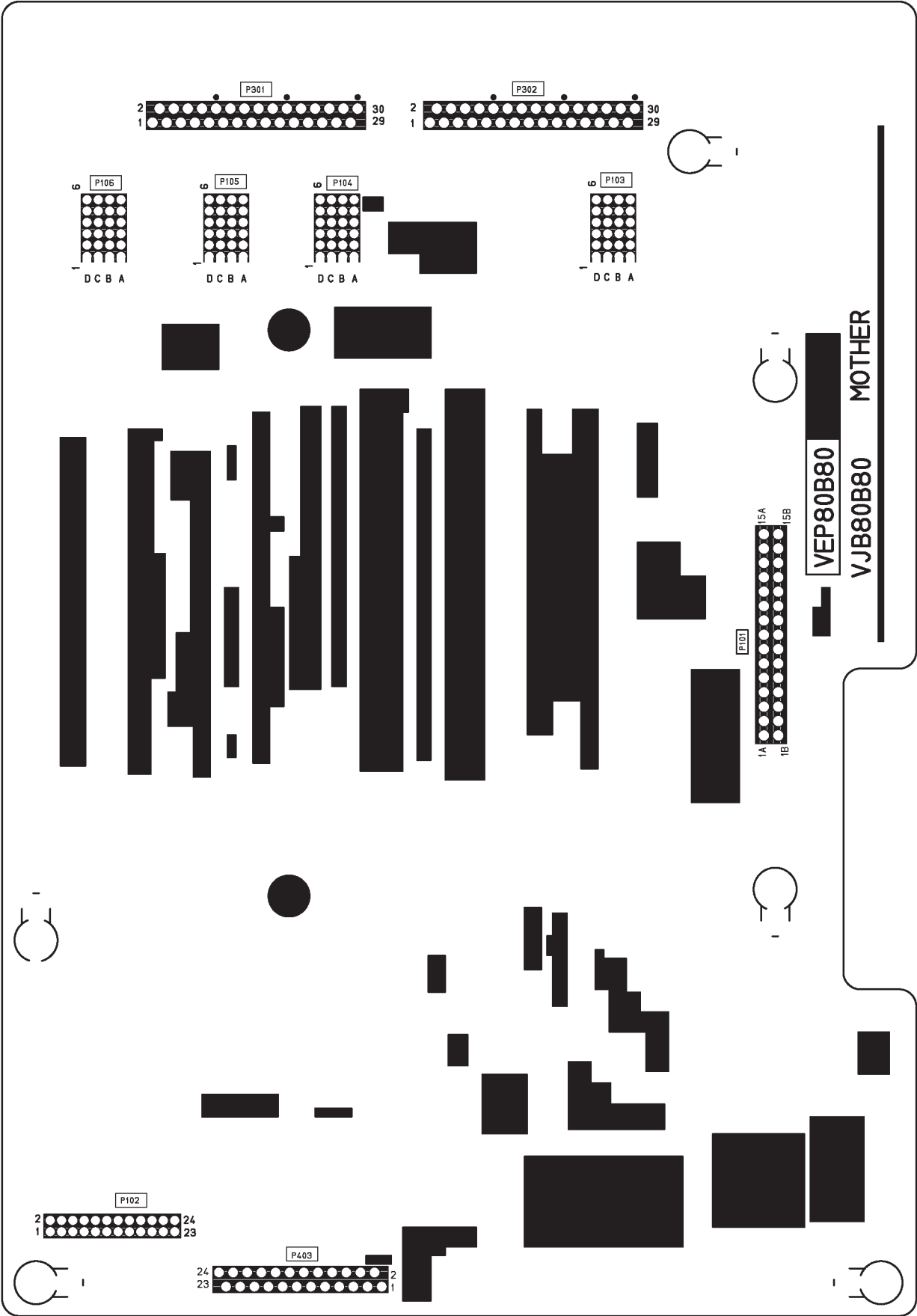


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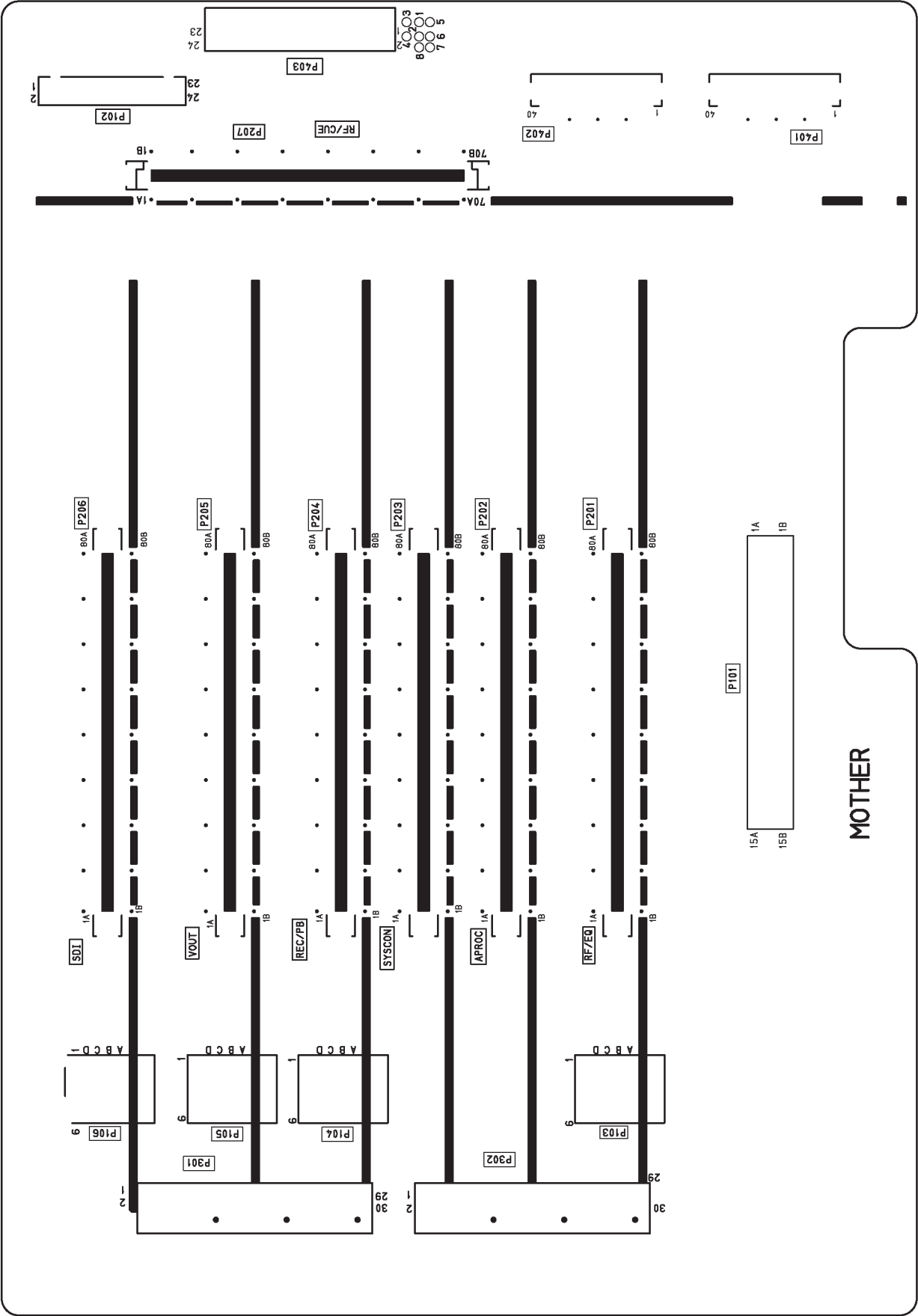


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MOTHER P.C. BOARD (VEP80B80A)

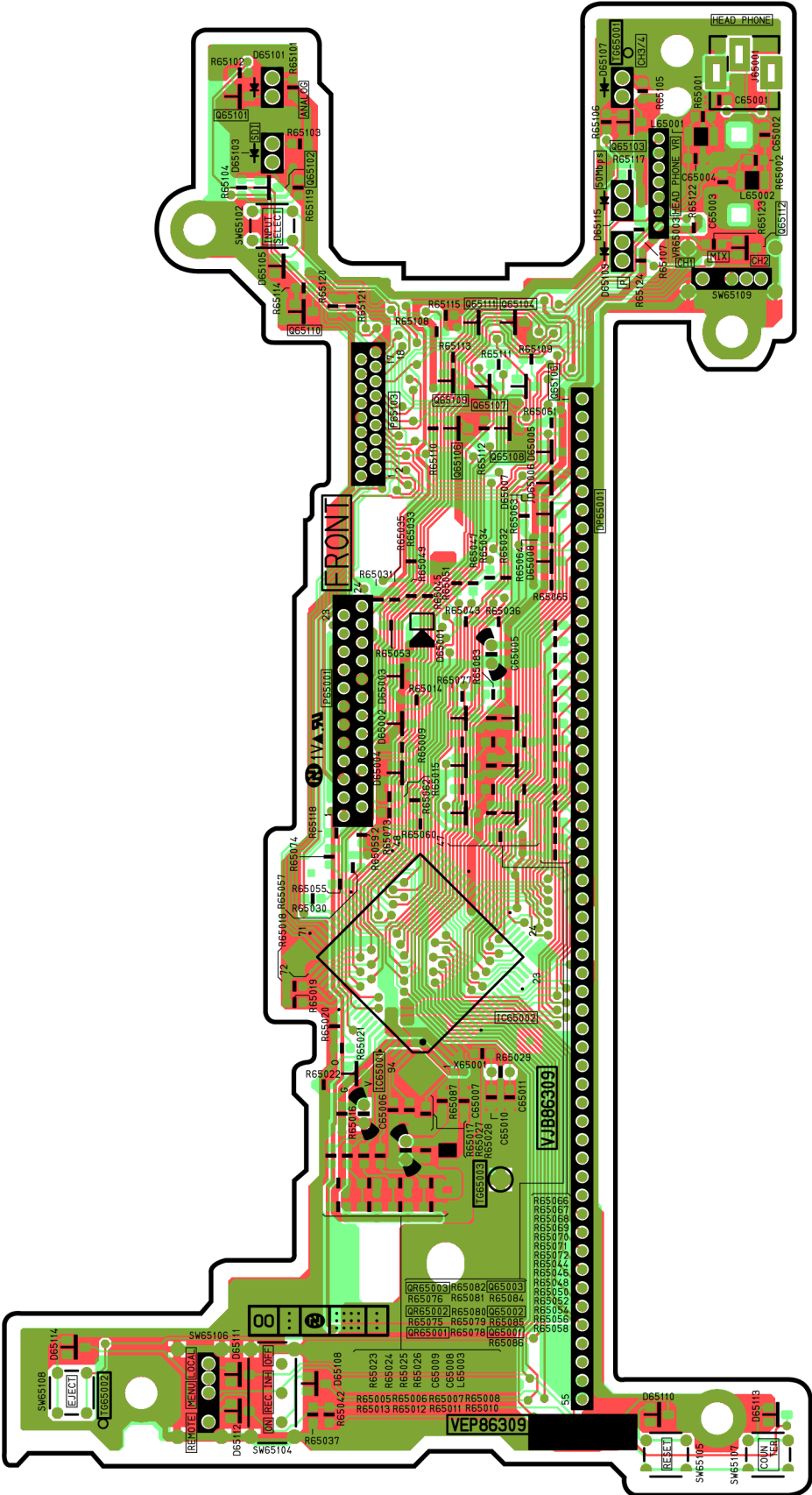


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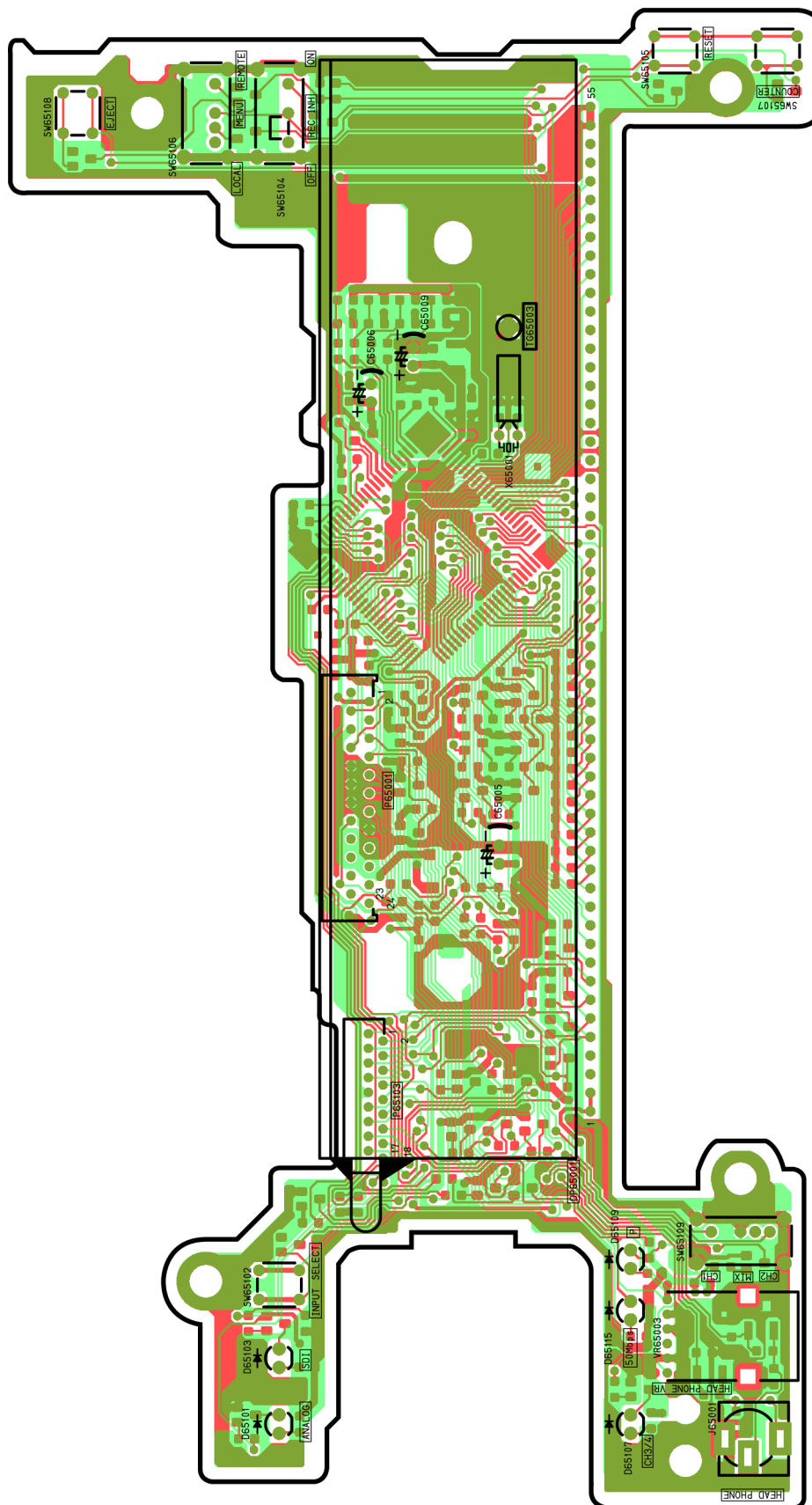


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FRONT P.C. BOARD (VEP86309A)

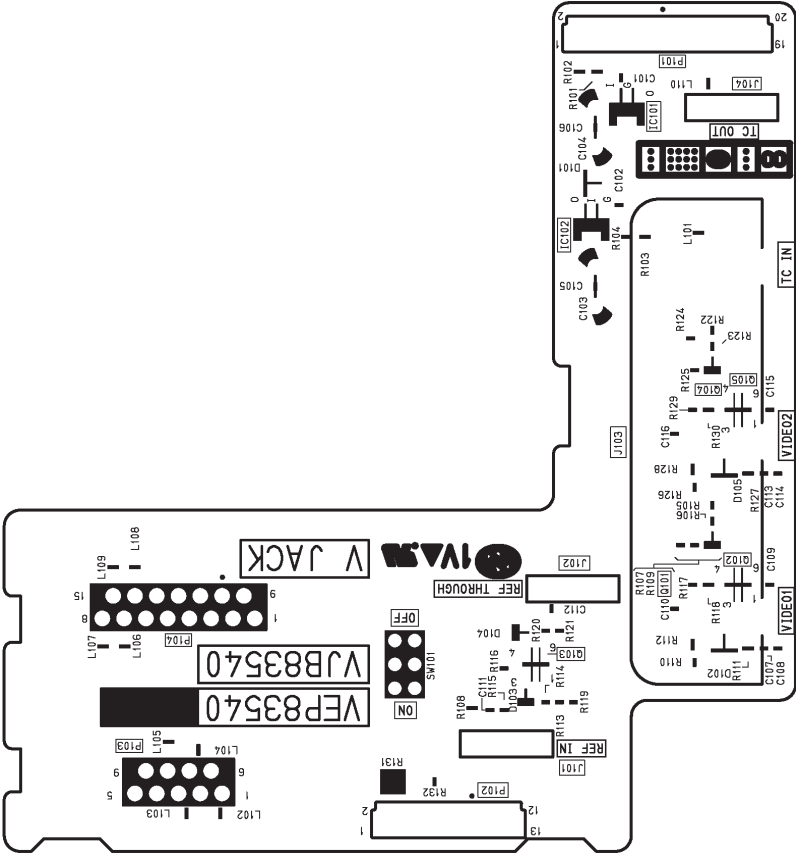


FRONT P.C. BOARD (VEP86309A)

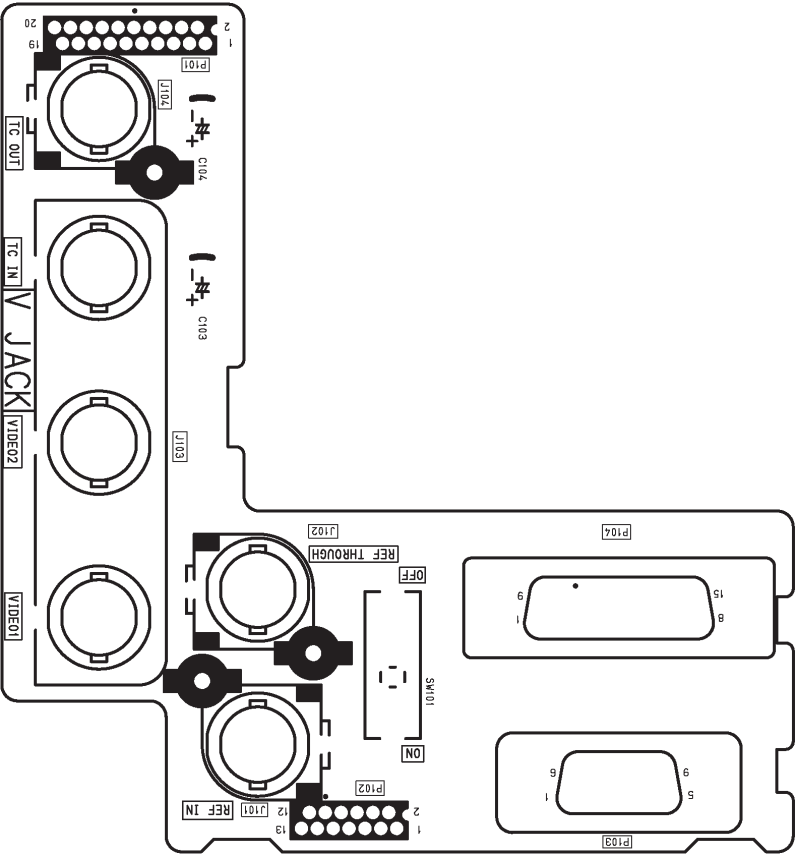


(COMPONENT SIDE)

V JACK P.C. BOARD (VEP83540A)

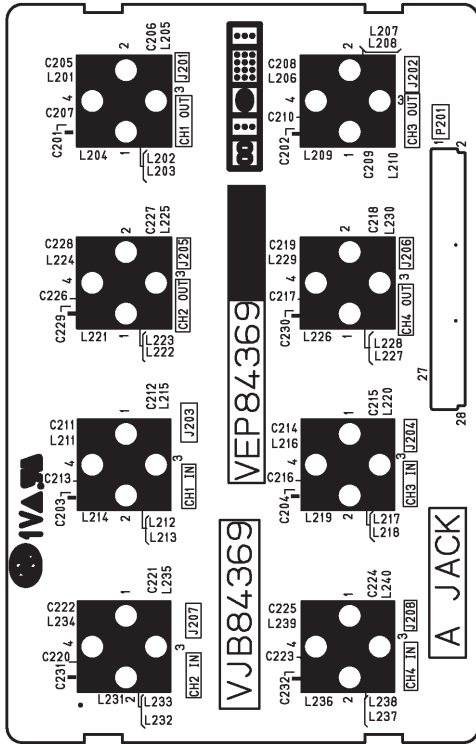


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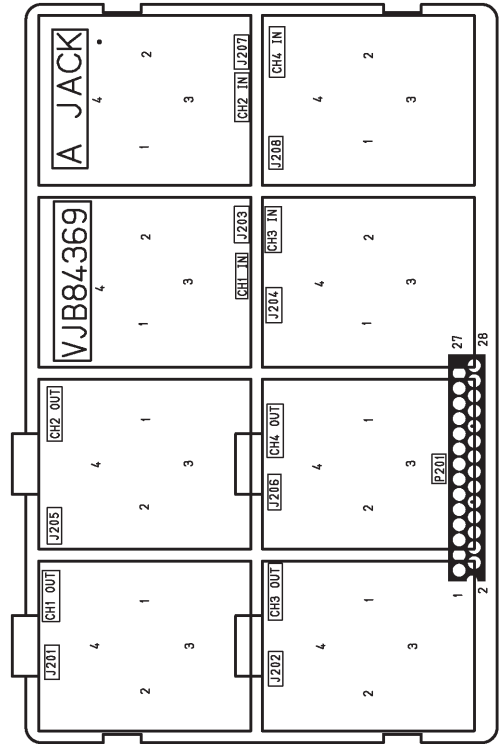


(COMPONENT SIDE)

A JACK P.C. BOARD (VEP84369B)

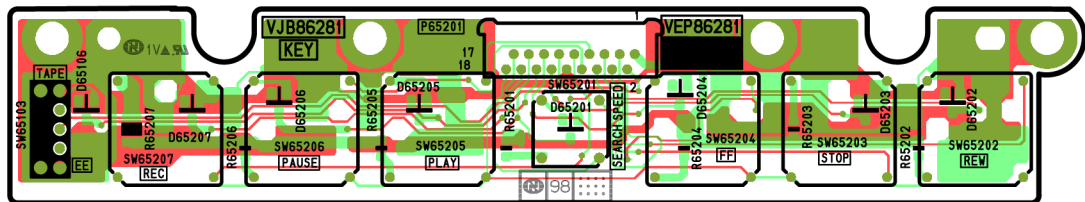


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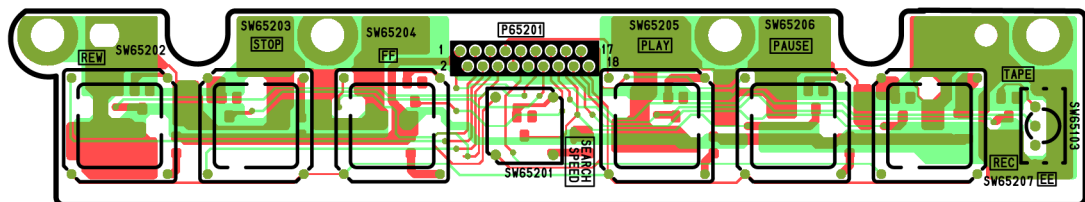


(COMPONENT SIDE)

KYE P.C. BOARD (VEP86281A)

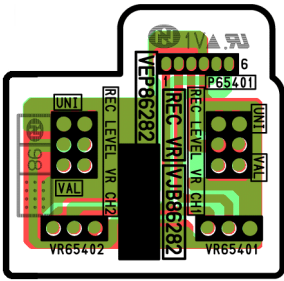


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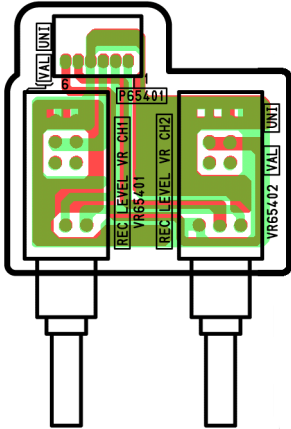


(COMPONENT SIDE)

REC VR P.C. BOARD (VEP86282A)

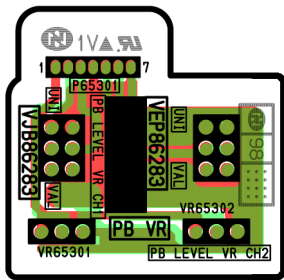


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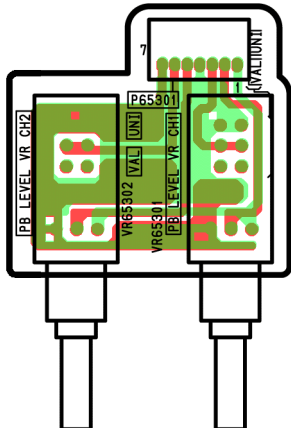


(COMPONENT SIDE)

PB VR P.C. BOARD (VEP86283A)

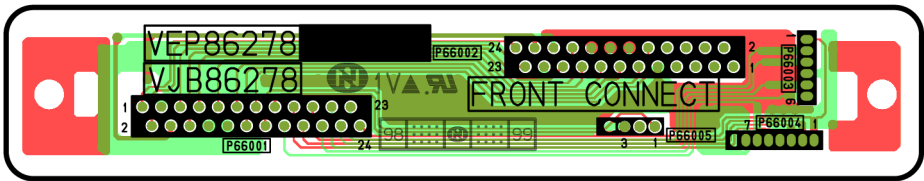


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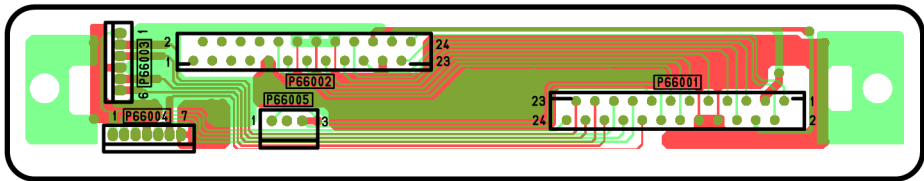


(COMPONENT SIDE)

FRONT CONNECT P.C. BOARD (VEP86278A)



(FOIL SIDE)



(COMPONENT SIDE)

SECTION 9

EXPLODED VIEWS & REPLACEMENT PARTS LISTS

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.
3. The P.C. Board units marked with "■" shown below the main assembled parts.
4. The parts marked with (E) on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

CONTENTS

Mechanical Chassis Assembly(1)	PRT-1
Mechanical Chassis Assembly(2)	PRT-3
Sub Chassis Assembly	PRT-5
Chassis Frame Assembly	PRT-7
Casing Parts Assembly	PRT-9
Cassette Compartment Assembly	PRT-11
Packing Parts Assembly	PRT-13
Electrical Replacement Parts List	PRT-15

SERVICING FIXTURES & TOOLS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER (T2-M30-P)	1	
2	VFK1149A	POST DRIVER (2.5mm)	1	
3	VFK71A	DIAL TORQUE GAUGE (1.5cN•m)	1	150g
4	VFK1191A	DIAL TORQUE GAUGE (0.45cN•m)	1	45g
5	VFK1152	DIAL TORQUE GAUGE ADAPTER	1	
6	VFK0357	ECCENTRIC SCREWDRIVER (1.5mm)	1	
7	VFK1154	POST HEIGHT FIXTUR	1	
8	VFK1348	NEUTRAL POSITION PLATE	1	FOR L CASSETTE
9	VFK1155	REV POSIOTION FIXTURE	1	(SILVER)
10	VFK1156	PLAY POSIOTION FIXTURE	1	(BLACK)
11	VFK1208	NEUTRAL POSITION PLATE	1	(B/hole)
12	VFK1150	NUT DRIVER (5.5mm)	1	
13	VFK1151	NUT DRIVER (2.5mm)	1	
14	VFK1188A	DIAL TENSION GAUGE (300mN)	1	30g
15	VFK0948	CHECK LIGHT	1	
16	VFK0749	FROIRAL GREASE	1	FOR PLASTIC
17	MOR265	MORLYTONE GREASE	1	FOR METAL
18	VFK1146	PHILIPS DRIVER (FINE) (00-75)	1	
19	VFK1147	PHILIPS DRIVER (FINE) (00-100)	1	
20	VFK1148	HEX. DRIVER (1.5mm)	1	
21	VFK1178	HEX. DRIVER (0.89mm)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
22	VFK1179	HEX. DRIVER (0.71mm)	1	
23	VFK1190	HEX. WRENCH	1	
24	VFK1209A	TORQUE DRIVER (4cN·m-30cN·m)	1	0.4kgf·cm-3kgf·cm
25	VFK1375	POST AXIS DRIVER	1	
26	VFM1300	A/D BOARD (Quatech DAQ-12)	1	OR VFM3581KL
27	VFM3580KL	DVCPRO ALIGNMENT TAPE (NO.1) FOR NTSC	1	OR VFM3582KL
28	VFM3581KL	DVCPRO ALIGNMENT TAPE (NO.2) FOR NTSC	1	
29	VFM3582KL	DVCPRO ALIGNMENT TAPE (NO.3) FOR NTSC	1	
30	AJ-CL12MP	CLEANING TAPE	1	SALES ROUTE
31	VFK1481B	LISTA SOFTWARE	1	
32	VFK1186	LISTA CABLE	1	
33	VFK0369	TWEEZERS	1	
34	VFK0371	RADIO PRIER	1	
35	VFK0372	CUTTER PRIER	1	
36	VFK0337	PHILIPS DRIVER	1	
37	VFK0338	TRIMMER ADJUSTMENT DRIVER	1	
38	VFK1339	TAPE SENSOR ADJUSTMENT CASSETTE	1	
39	VFK0906	LUBRICATING OIL	1	
40	VFK1304A	FLASH MEMORY VERSION UP TOOL	1	
41	VFK1590	CPLD WRITER	1	

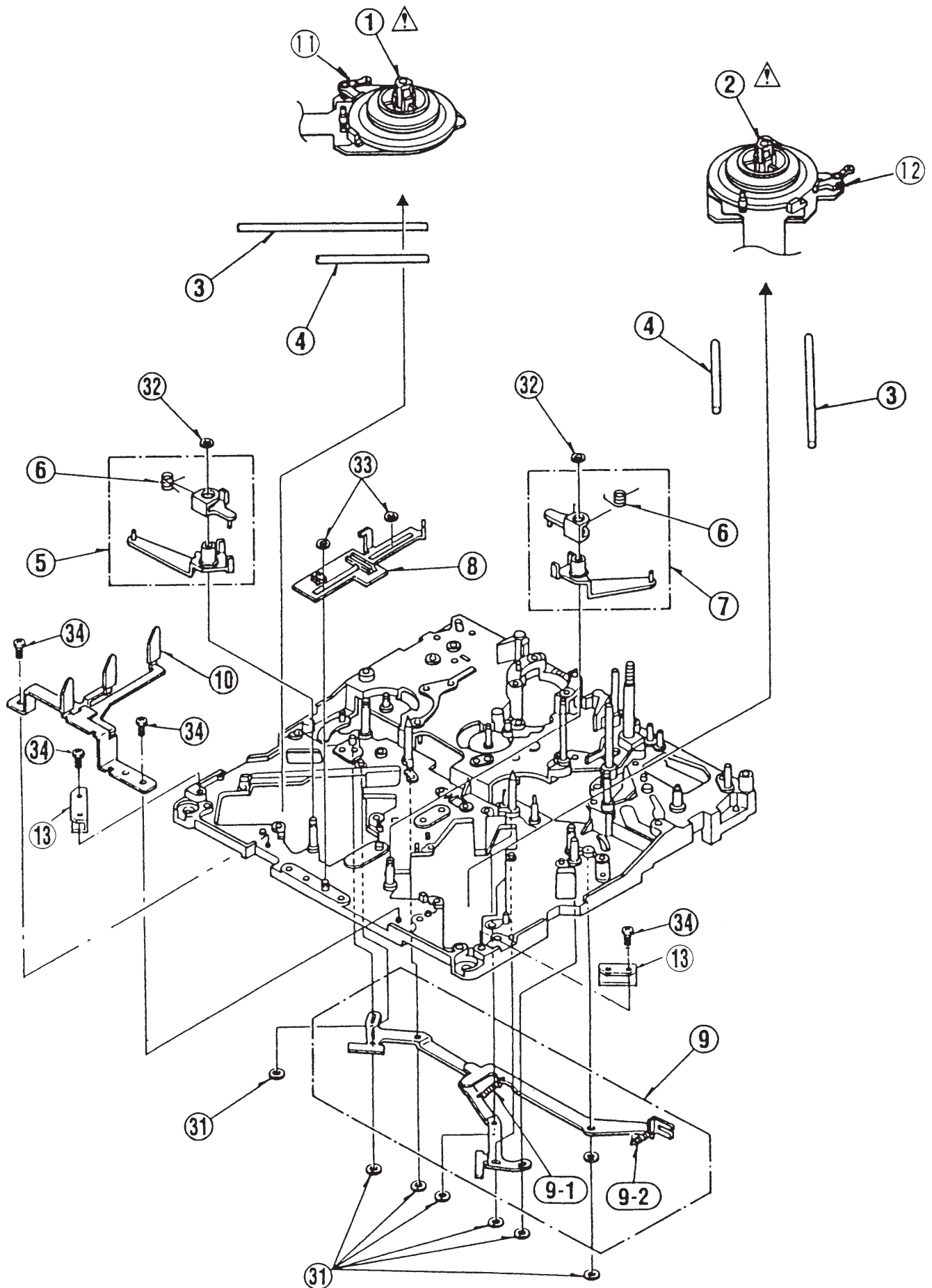
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MECHANICAL CHASSIS ASSEMBLY (1)

[illegible]

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MECHANICAL CHASSIS ASSEMBLY (1)

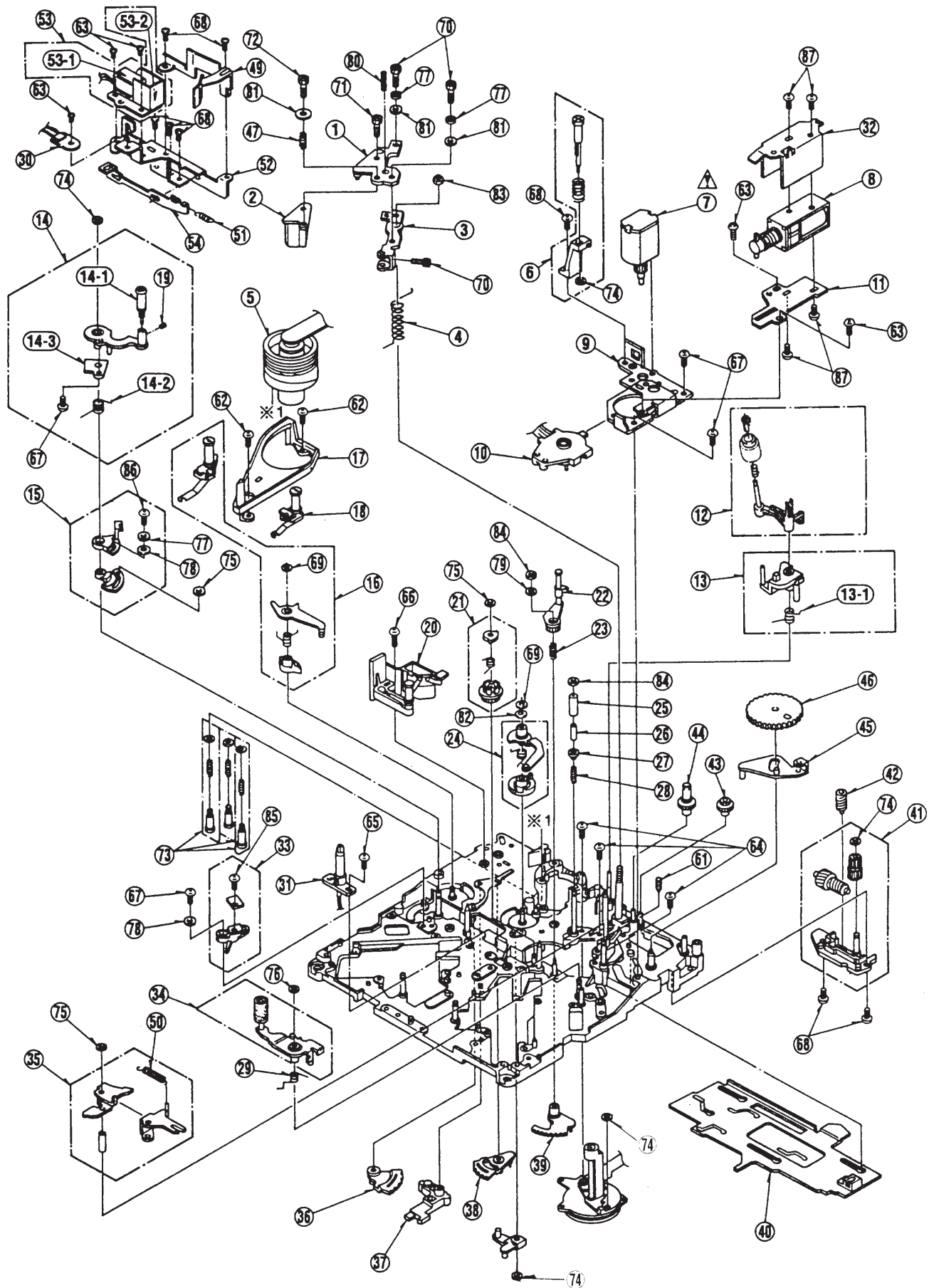


MECHANICAL CHASSIS ASSEMBLY (2)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6630	A/C HEAD BASE (1) ASS' Y	1	
2	VED0419	A/C HEAD	1 (M)	
3	VXA6067	A/C HEAD BASE (2) ASS' Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
5	VEG1568	CYLINDER UNIT	1 (M)	
6	VXA5715	EMERGENCY SHIFT HOLDER ASS' Y	1	
7	VEM0645	LOADING MOTOR (1)A ASS' Y	1 (M)	
8	VSJ0227	PINCH SOLENOID	1 (M)	
9	VXA5584	MOTOR ANGLE ASS' Y	1	
10	VES0918	MODE SW ASS' Y	1 (M)	
11	VMA0A35	PINCH SOLENOID BASE	1	
12	VXL3027	CLEANING ARM ASS' Y	1 (M)	
13	VXL2871	T2 ARM ASS' Y	1	
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2832	TENSION ARM A ASS' Y	1 (M)	
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS' Y	1	
15	VXA5791	TENSION LEG SPRING HOOK ASS' Y	1	
16	VXL2812	S1 LOADING ARM ASS' Y	1 (M)	
17	VMD3731	LOADING RAIL	1	
18	VXA6379	T1 BOAT ASS' Y	1 (M)	
19	VHD0561	HEX SCREW	1	
20	VXA6025	S POST BASE A ASS' Y	1 (M)	
21	VXP1683	T4 CONNECTION GEAR ASS' Y	1	
22	VXL2772	T4 ARM ASS' Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2953	T LOADING ARM ASS' Y	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULATION SENSOR	1	EYHS77Y7
31	VEK7691	LED HOLDER P. C. BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR ASS' Y	1	
34	VXL2835	PINCH ARM ASS' Y	1 (M)	
35	VXL2588	PINCH GUIDE ARM ASS' Y	1	
36	VXA5570	T SECTOR GEAR ASS' Y	1	
37	VXL2838	TENSION LEG, GUIDE ARM	1	
38	VXA5567	S SECTOR GEAR ASS' Y	1	
39	VXA5564	T4 SECTOR GEAR ASS' Y	1	
40	VXA6348KIT	MAIN ROD ASS' Y	1	
41	VXA5627	THRUST SHAFT HOLDER ASS' Y	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMERGENCY GEAR A (A)	1	
44	VDG1267	MOTOR EMERGENCY GEAR B (A)	1	
45	VXL2889	MAIN CAM ARM ASS' Y	1	
46	VDG1168	MAIN CAM GEAR	1 (M)	
47	VMB2937	A/C HEAD ADJUST SPRING	1	
49	VMD3475	T1 GUIDE ASS' Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS' Y	1	
53	VXA6078	CLEANER SOLENOID ASS' Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1 (M)	
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS' Y	1 (M)	
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	

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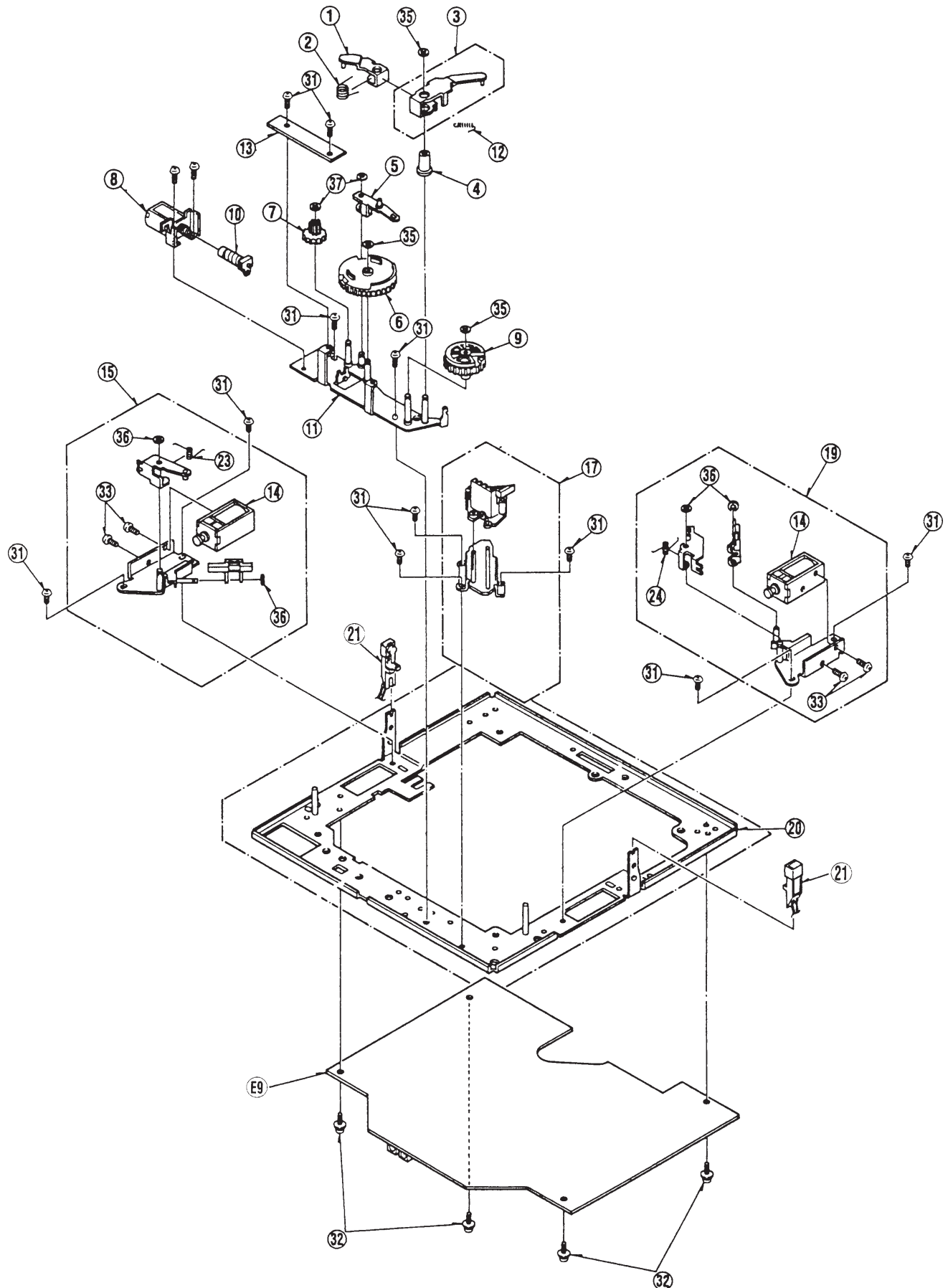
MECHANICAL CHASSIS ASSEMBLY (2)



SUB CHASSIS ASSEMBLY

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SUB CHASSIS ASSEMBLY

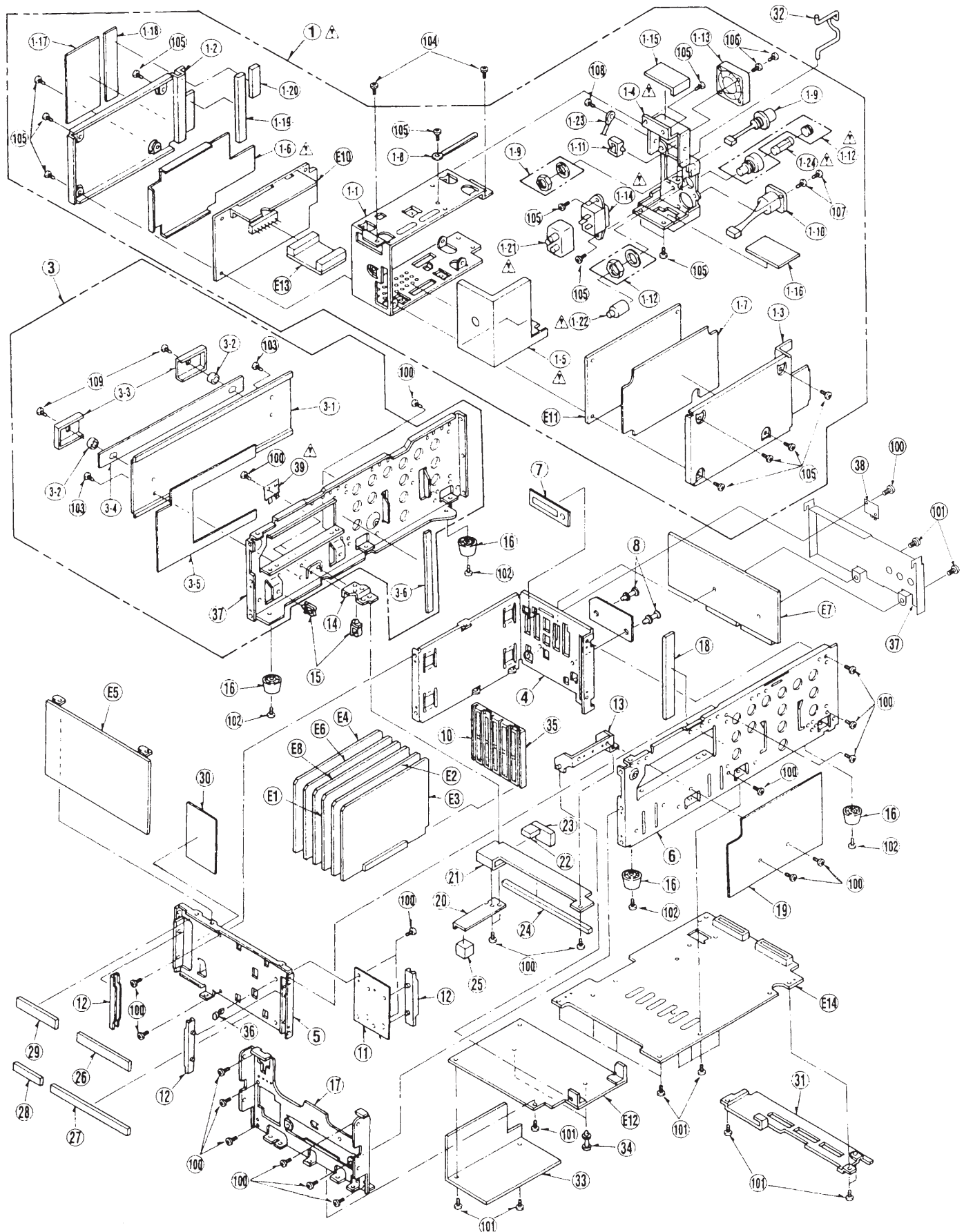


CHASSIS FRAME ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
104	XTV3+6FFR	SCREW	2	
105	XTV3+8F	SCREW	12	
106	XSN3+16FZ	SCREW	2	
107	XSN26+6FC	SCREW	2	
108	XYE4+EF8	SCREW	1	
109	XSS4+14FZ	SCREW	2	
E1	VEP83539A	REC/PB P.C.BOARD	1	
E2	VEP83537A	VIDEO OUT P.C.BOARD	1	
E3	VEP83536A	SDI P.C.BOARD	1	
E4	VEP85194A	RF/EQ P.C.BOARD	1	
E5	VEP85195A	RF/CUE P.C.BOARD	1	
E6	VEP84367A	A PROC P.C.BOARD	1	
E7	VEP84368A	A I/O P.C.BOARD	1	
E8	VEP86313A	SYSCON P.C.BOARD	1	
E10	VEP81203B	POWER 1 P.C.BOARD	1	
E11	VEP81219A	POWER 2 P.C.BOARD	1	
E12	VEP81217A	POWER 3 P.C.BOARD	1	
E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	
E14	VEP80B80A	MOTHER P.C.BOARD	1	

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CHASSIS FRAME ASSEMBLY



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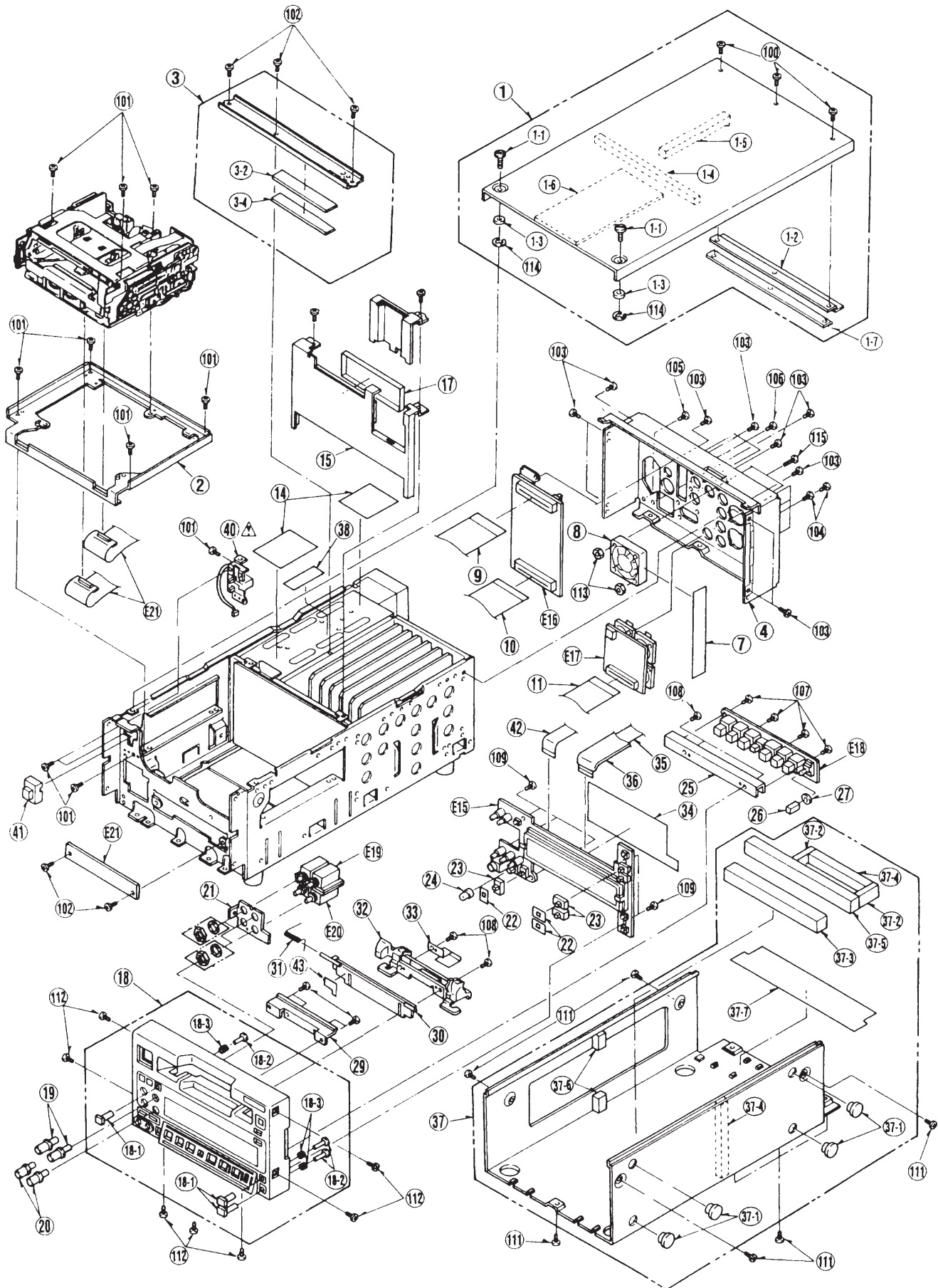
CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYM0196	TOP PLATE ASS'Y	1	
1-1	VHD0274	SCREW	2	
1-2	VMP5903	TOP PANEL ANGLE	1	
1-3	VMX2510	SPACER	2	
1-4	VMT0967	DUST PROOF CUSHION (C)	1	
1-5	VMT1225	DUST PROOF CUSHION (E)	1	
1-6	VMZ2325	TOP PANEL BARRIER	1	
1-7	VMX2930	SCREW GUIDE SPACER	1	
2	VXA6904	CHASSIS ANGLE ASS'Y	1	
3	VXA6923	P. C. B. ANGLE A ASS'Y	1	
3-2	VMX3068	P. C. B. HOLDER RUBBER (A)	1	
3-3	VMX2830	P. C. B. HOLDER RUBBER (B)	1	
3-4	VMX3069	P. C. B. HOLDER RUBBER (B)	1	
3-5	VMP5881	P. C. B. HOLDER RUBBER (A)	1	
4	VJH1190	JACK PLATE	1	
7	VG0805	BLIND SHEET (E)	1	
8	VRF0216	FAN MOTOR	1	L6FAHCAD0002
9	VMJ22SW280LO	AV REMOTE FFC	1	
10	VMJ1274	REAR JACK FFC	1	
11	VMJ1273	AUDIO JACK FFC	1	
14	VMZ2909	SHEET (B)	2	
15	VXA7230	DUST PROOF BARRIER (A)	1	
16	VG0790	DUST PROOF BARRIER (E)	1	
17	VMT0978	DUST PROOF CUSHION (H)	1	
18	VYP8072	FRONT PANEL (1) ASS'Y	1	
18-1	VGU3894	BUSH BUTTON	3	
18-2	VMB2597	KEY BUTTON COIL SPRING	3	
18-3	VGQ3176	PUSH BUTTON	3	
19	VXU1166	REC VR KNOB	2	
20	VXU0768	VR KNOB ASS'Y	2	
21	VMP5873	VR HOLDER ANGLE	1	
22	VG0687	SLIDE SW SHEET	3	
23	VGU5582	SWITCH KNOB	3	
24	VGU5605	KNOB	1	
25	VMP5908	P. C. BOARD HOLDER ANGLE	1	
26	VGU8134	TOGGLE SW KNOB	1	KOYA00000037
27	VGK2475	TOGGLE SW SHEET	1	
29	VMP5909	TOP PANEL ANGLE	1	
30	VKF3334	BLIND PANEL	1	
31	VMB3334	BLIND SPRING	1	
32	VYQ1401	CASSETTE GUIDE ASS'Y	1	
33	VG0706	FLEXIBLE CABLE BARRIER	1	
34	VMZ2905	FRONT P. C. BOARD BARRIER	1	
35	VMJ24AW210MO	FRONT (1) FFC	1	
36	VJF0795	SHIELD SHEET	1	
37	VYF2750	BOTTOM PLATE ASS'Y	1	
37-1	VMG1197	FOOT	2	
37-2	VMT0976	DUST PROOF CUHION (F)	2	
37-3	VMT1003	DUST PROOF CUHION (P)	1	
37-4	VMT0965	DUST PROOF CUHION (B)	2	
37-5	VMT0967	DUST PROOF CUHION (C)	1	
37-6	VMT0968	DUST PROOF CUHION (D)	2	
37-7	VG0834	DUST PROOF SHEET	1	
38	VG0763	DUST PROOF SHEET (C)	1	
⚠ 40	VES0899	POWER SW ASS'Y	1	
41	VGU8051	POWER BUTTON	1	
42	VMJ1276	KEY FFC	1	
43	VG0822	BLIND SHEET	1	
100	XQN26+A25FC	SCREW	3	
101	XTV3+6F	SCREW	12	
102	XTV3+6FFR	SCREW	4	
103	XTV3+6FFZ	SCREW	12	
104	XSN26+6FZ	SCREW	8	
105	XYE4+EF8	SCREW	1	
106	XTN3+10JFZ	SCREW	9	
107	XTN3+F6RS	SCREW	4	
108	XTV3+8G	SCREW	8	
109	XYE3+EJ10FR	SCREW	5	
110	XTN4+10G	SCREW	1	
111	XSB4+4FCW	SCREW	4	
112	XTV3+8FFZ	SCREW	7	

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CASING PARTS ASSEMBLY

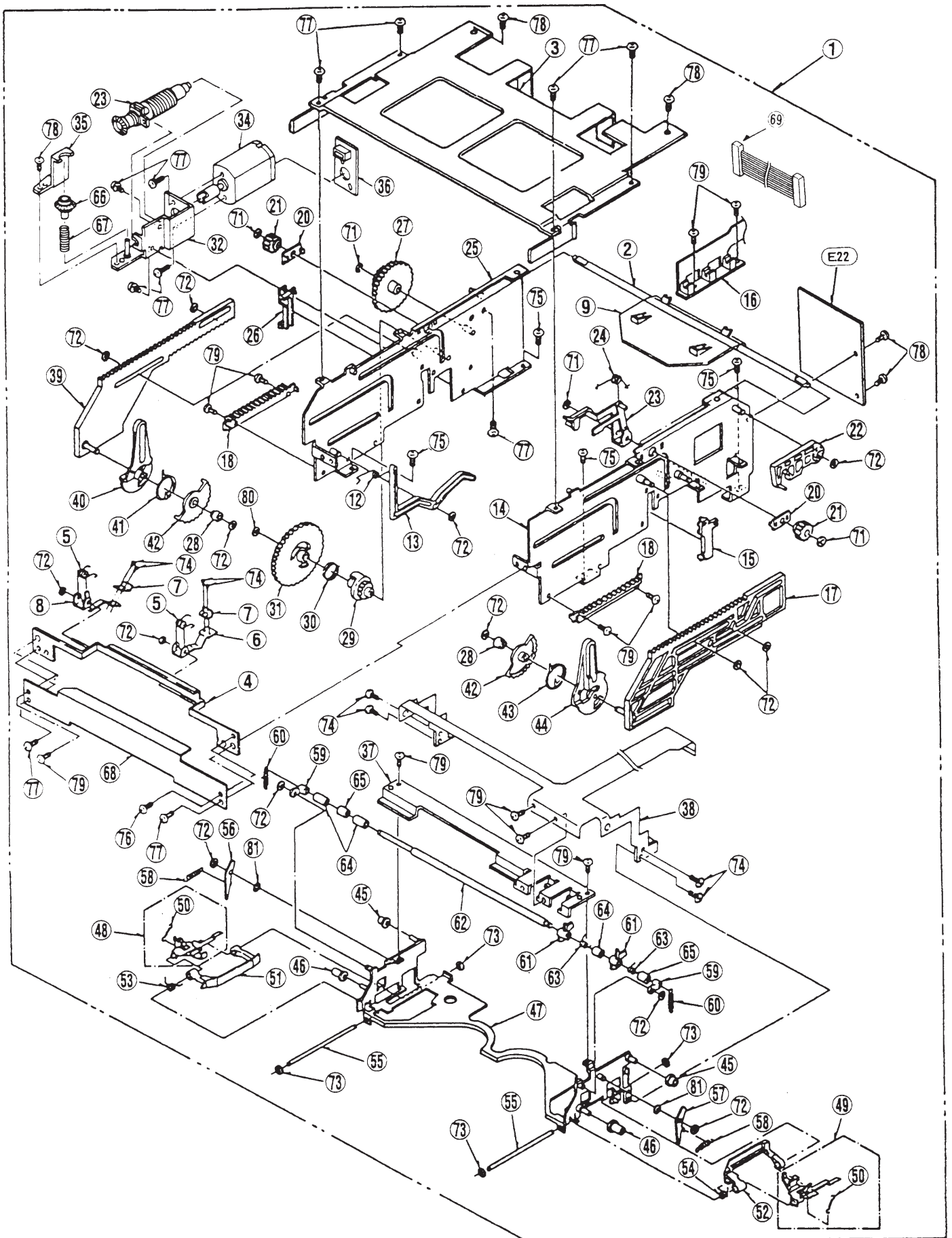


CASSETTE COMPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA5761	FRONT GUIDE 1 ASS'Y	1	
5	VM3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VM32926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1155	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VM32979	SPRING	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1254	INTERMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1237	CLUTCH GEAR	1	
30	VM32980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E. E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR A ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P. C. BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML2A49	WIPER ARM L	1	
41	VM32925	WIPER SPRING L	1	
42	VDG1163	WIPER GEAR	2	
43	VM33013	WIPER SPRING R	1	
44	VML2A52	WIPER ARM R	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VM33064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VM33061	SLIDE GUIDE SPRING L	1	
54	VM33062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VM32928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VM32927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VM33253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER (2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER (1)	1	
66	VDG1246	EMARGENCY GEAR	1	
67	VM33109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	4	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	
76	XQN2+A2	SCREW	2	

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CASSETTE COMPARTMENT ASSEMBLY



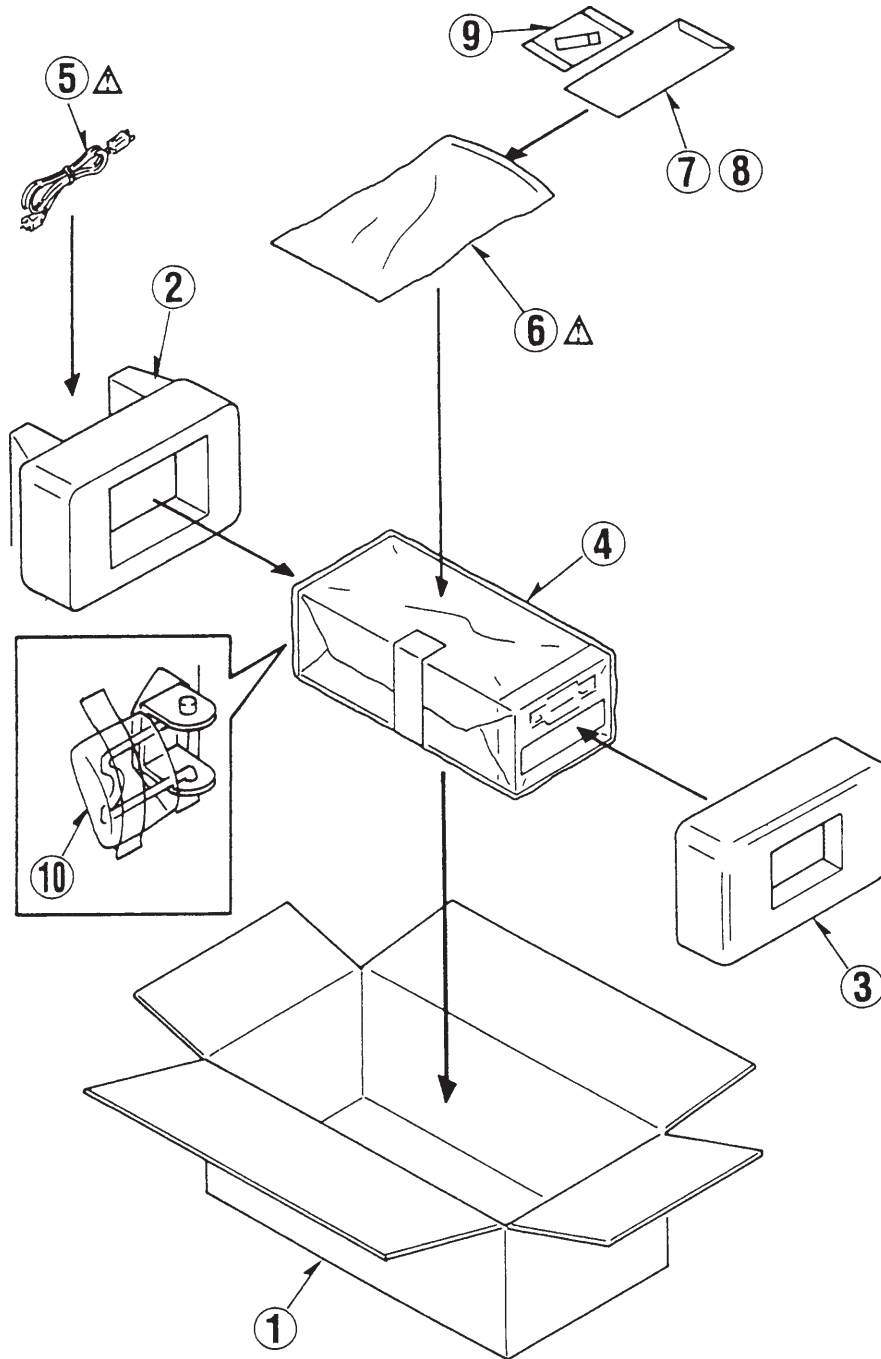
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PACKING PARTS ASSEMBLY

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PACKING PARTS ASSEMBLY



ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83539A	REC/PB P. C. BOARD	1	(RTL)	■ E1	VEP83539A	REC/PB P. C. BOARD	1	(RTL)
■ E2	VEP83537A	VIDEO OUT P. C. BOARD	1	(RTL)					
■	VEP83538A	DOWN CONV P. C. BOARD	1	(RTL) FOR VEP83537A					
■ E3	VEP83536A	SDI P. C. BOARD	1	(RTL)	C3001, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
■	VEP83459B	HD SDI RX P. C. BOARD	1	(RTL) FOR VEP83536A	C3081-84	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
■	VEP83460B	HD SDI TX P. C. BOARD	1	(RTL) FOR VEP83536A	C3085-88	EEVHBOJ330	E. CAPACITOR 6.3V 33U	4	
					C3089-94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
■ E4	VEP85194A	RF/EQ P. C. BOARD	1	(RTL)	C3095-97	EEVHBOJ330	E. CAPACITOR 6.3V 33U	3	
■ E5	VEP85195A	RF/QUE P. C. BOARD	1	(RTL)	C3098-00	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
■ E6	VEP84367A	A PROC P. C. BOARD	1	(RTL)	C3101	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
■ E7	VEP84368A	A I/O P. C. BOARD	1	(RTL)	C3111-21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	11	
■ E8	VEP86313A	SYSCON P. C. BOARD	1	(RTL)	C3233-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	
■ E9	VEP82236A	SERVO P. C. BOARD	1	(RTL)	C3291-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	18	
■ E10	VEP81203B	POWER 1 P. C. BOARD	1	(RTL)	C3309	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
■	VEP81224A	POWER 1 SUB P. C. BOARD	1	(RTL) FOR VEP81203B	C3310	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
■ E11	VEP81219A	POWER 2 P. C. BOARD	1	(RTL)	C3311-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
■ E12	VEP81217A	POWER 3 P. C. BOARD	1	(RTL)	C3315	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
■ E13	VEP80A88A	POWER CONNECT P. C. BOARD	1	(RTL)	C3316	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
■ E14	VEP80B80A	MOTHER P. C. BOARD	1	(RTL)	C3317-21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
■ E15	VEP86309A	FRONT P. C. BOARD	1	(RTL)	C3322	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
■ E16	VEP83540A	V JACK P. C. BOARD	1	(RTL)	C3341-48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
■ E17	VEP84369B	A JACK P. C. BOARD	1	(RTL)	C3349	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
■ E18	VEP86281A	KEY P. C. BOARD	1	(RTL)	C3401-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
■ E19	VEP86282A	REC VR P. C. BOARD	1	(RTL)	C3409	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
■ E20	VEP86283A	PB VR P. C. BOARD	1	(RTL)	C3461-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16	
■ E21	VEP86278A	REMOTE P. C. BOARD	1	(RTL)	C3477	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
■ E22	VEP80856A	CARRIGE P. C. BOARD	1	(RTL)	C3478, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
					C3480	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
					C3483, 84	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	2	
					C3485-87	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
					C3488	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
					C3531-38	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
					C3581-88	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
					C3589	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
					C3590-95	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
					C3596	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
					D3082	MA716	DIODE	1	
					D3083, 84	MA701A	DIODE	2	
					D3291	MA153	DIODE	1	
					IC3001	TVHC245FT	IC	1	
					IC3081	XC62FP5002P	IC	1	
					IC3082	XC62DN5002P	IC	1	
					IC3083-85	XC62FP3202P	IC	3	
					IC3111	COJBAZ001544	IC	1	
					IC3112	DS90LV048A	IC	1	
					IC3113	TLCX257FT	IC	1	
					IC3114	TLCX245FT	IC	1	
					IC3116, 17	TLCX125FT	IC	2	
					IC3124	TLCX574FT	IC	1	
					IC3125-28	TVHC245FT	IC	4	
					IC3201	TC7S04FU	IC	1	
					IC3202-09	TLCX574FT	IC	8	
					IC3210, 11	TVHC245FT	IC	2	
					IC3212	TC7W32FU	IC	1	
					IC3291	D4564163A10B	IC	1	
					IC3292	MB87J1460	IC	1	
					IC3293	TC7W241FU	IC	1	
					IC3294	NJM082BM	IC	1	COABEB000017
					IC3297	D4564163A10B	IC	1	
					IC3341	MN673797A	IC	1	
					IC3401	MN673797A	IC	1	
					IC3461	D4564163A10B	IC	1	
					IC3462	MN7F008B4C	IC	1	
					IC3463	XC62FP3302P	IC	1	
					IC3464	TVHU04FT	IC	1	
					IC3466	TLCX125FT	IC	1	
					IC3470	TVHC32FT	IC	1	
					IC3531, 32	DS90LV048A	IC	2	
					IC3534	DS90LV047A	IC	1	
					IC3537	DS90LV047A	IC	1	
					IC3581, 82	TC7W241FU	IC	2	
					IC3585	C1ZBZ0001791	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3587	GOEBE0000073	IC	1		R3373, 74	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
IC3588	TC7S04FU	IC	1		R3375-82	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
					R3401	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
ID0	VVVS13495	SOFTWARE	1		R3402	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
					R3403, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
IP3533	EPW7256AE107	PLD	1		R3405-18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	14	
IP3586	EPC2TC32	IC	1		R3419	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
					R3420	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
L3081-83	VLF1151A132	COIL	3		R3421-28	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	8	
L3291	VLQ0319K470	COIL 47UH	1	G1C470K00013	R3429, 30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
					R3431-38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
P3001	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002	R3461	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
P3002	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038	R3462	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
P3003	VJP3125B008	CONNECTOR (MALE)	1		R3463	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
P3004	VJS3791B020	CONNECTOR (FEMALE)	1		R3464	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
					R3465, 66	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
QR3581	UN2214	TRANSISTOR-RESISTOR	1		R3467-71	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
					R3474, 75	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3001-41	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	41		R3478, 79	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3480	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3044-48	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	5		R3481, 82	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3049	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3483	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3050-53	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4		R3484	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R3054	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R3485-92	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	8	
R3055	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R3493	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3057-68	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	12		R3497-01	ERJ3GEYJ203	M. RESISTOR CH 1/16W 20K	5	
R3069	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R3502-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R3070	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3506	ERJ3GEYJ203	M. RESISTOR CH 1/16W 20K	1	
R3072	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R3507	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3075	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3508	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R3111, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R3509, 10	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R3113	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R3511	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3114	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3513, 14	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R3115	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R3531-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R3116	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3535, 36	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R3117-19	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3		R3537, 38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3120	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3539-42	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R3122, 23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2		R3543, 44	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3125-32	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8		R3545, 46	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R3136	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3547	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3138	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3548	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3140	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3550	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3142	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3551-60	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	10	
R3143	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3561-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R3144	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		R3581-83	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R3145	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3584	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3150	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3585	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3151-53	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3		R3588	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3154-58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5		R3590-95	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R3159-81	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	23		R3596	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3182	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		R3597-01	ERJ3GEYJ203	M. RESISTOR CH 1/16W 20K	5	
R3184-87	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4		R3602-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R3188	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3606	ERJ3GEYJ203	M. RESISTOR CH 1/16W 20K	1	
R3233-64	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	32		R3607	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3265, 66	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R3609, 10	D1H833040002	COMBI. R-R	2	
R3267, 68	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R3721	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3269, 70	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2						
R3271-74	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4						
R3275-78	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4		TG3001-05	EYF6CU	TEST POINT	5	
R3291-06	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	16						
R3307	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		TP3342, 43	EYF6CU	TEST POINT	2	
R3309, 10	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		TP3464-74	EYF6CU	TEST POINT	11	
R3311	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		TP3531, 32	EYF6CU	TEST POINT	2	
R3312-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		TP3585, 86	EYF6CU	TEST POINT	2	
R3315-18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4		TP3591	EYF6CU	TEST POINT	1	
R3319	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1						
R3320	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		X3291	VXS1084	CRYSTAL OSCILLATOR	1	
R3321	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		X3461	VXS0890	CRYSTAL OSCILLATOR	1	HOJ414500001
R3322	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1						
R3341	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1				MISCELLANEOUS		
R3342-45	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4						
R3346	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		VK00572	P. C. BOARD CATCHER (L)		1	
R3347, 48	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		VK00573	P. C. BOARD CATCHER (R)		1	
R3349-62	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	14		XNG3ES	NUT		2	
R3363-72	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	10		XYN3+K8	SCREW		2	
					XYN2+J6	SCREW		2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E2	VEP83537A	VIDEO OUT P. C. BOARD	1	(RTL)					
■	VEP83538A	DOWN CONV P. C. BOARD	1	FOR VEP83537A					
C1-C5	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5		C166	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C6	EEVHB1C470	E. CAPACITOR 16V 47U	1		C168	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C169	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C8	EEVHB1C470	E. CAPACITOR 16V 47U	1		C170	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C171	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C12	EEVHB1A330	E. CAPACITOR 10V 33U	1		C172	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C13, 14	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2		C173	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C15, 16	EEVHB1A330	E. CAPACITOR 10V 33U	2		C174	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C175	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C20	EEVHB1A330	E. CAPACITOR 10V 33U	1		C176	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C21	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1		C177	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C22	EEVHB1A330	E. CAPACITOR 10V 33U	1		C178-81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C182, 83	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C26	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C184	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C28	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C185-88	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C30	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C189	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C32, 33	EEVHB1A330	E. CAPACITOR 10V 33U	2		C190	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C36, 37	EEVHB1A330	E. CAPACITOR 10V 33U	2		C191-93	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C200	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C41	EEVHB1A330	E. CAPACITOR 10V 33U	1		C201	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C202	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C100	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	FOR VEP83538A	C203	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C101	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C203	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	FOR VEP83538A
C101	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A	C204	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C102	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	FOR VEP83538A	C205	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C102	EEVHB1A330	E. CAPACITOR 10V 33U	1		C205	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	FOR VEP83538A
C103	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C206	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C103	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A	C207	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A
C104	EEVHB1A330	E. CAPACITOR 10V 33U	1		C207	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C105	EEVHP1H1R0	E. CAPACITOR 50V 1U	1		C208	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C106-08	ECUX1H103ZV	C. CAPACITOR CH 50V 0.01U	3		C209	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C109	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C210	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C110	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C211	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C111	EEVHP1A330	E. CAPACITOR 10V 33U	1		C212	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A
C112	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C212	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C113	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C213	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C114	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C214-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C115, 16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C218, 19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C117	EEVHP1H1R0	E. CAPACITOR 50V 1U	1		C220	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C118	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C221	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C119	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C223	ECA1CXL470	E. CAPACITOR 16V 47U	1	
C120	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C250	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C121	ECUX1H103ZV	C. CAPACITOR CH 50V 0.01U	1		C251, 52	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C122	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C253	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C123	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C254	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C124	EEVHP1A330	E. CAPACITOR 10V 33U	1		C255	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C125	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C256, 57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C126	ECUX1H020CCV	C. CAPACITOR CH 50V 2P	1		C258	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C127	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C259-61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C128	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C262	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C129	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1		C265	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C130, 31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C267	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C132	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		C268, 69	EEVHB1A330	E. CAPACITOR 10V 33U	2	
C133	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C271-77	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C134-36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		C279	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C137	ECKF1H821KB	C. CAPACITOR 50V 820P	1		C280, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C150	EEVHB1C220	E. CAPACITOR 16V 22U	1		C282	ECA1CXL470	E. CAPACITOR 16V 47U	1	
C151	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C305-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	FOR VEP83538A
C152	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C311	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	FOR VEP83538A
C153-56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		C312-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	FOR VEP83538A
C157	EEVHP1H3R3	E. CAPACITOR 50V 3.3U	1		C316	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	FOR VEP83538A
C158	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		C400, 01	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C159-61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		C402	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C162	EEVHP1V2R2	E. CAPACITOR 35V 2.2U	1		C403	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C163	EEVHB1A330	E. CAPACITOR 10V 33U	1		C404	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C164, 65	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C405	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C406	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C407	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C409	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C410	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C416	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A
					C417	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	FOR VEP83538A
					C419	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	FOR VEP83538A
					C420	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A
					C500-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	16	FOR VEP83538A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C564-70	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7		IC204	IDTLVC16245F	IC	1	FOR VEP83538A
C600-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	17		IC204	XC62FP5002P	IC	1	
C617	ECUX1H103ZV	C. CAPACITOR CH 50V 0.01U	1		IC205	TLCX244FT	IC	1	
C618-21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		IC205	TLCX245FT	IC	1	FOR VEP83538A
C700	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC206	TLCX240FT	IC	1	
C701	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A	IC206	TLCX245FT	IC	1	FOR VEP83538A
C701	EEVHB1A330	E. CAPACITOR 10V 33U	1		IC208	XC62FP3302P	IC	1	
C702, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	FOR VEP83538A	IC250	NJM084M	IC	1	COABFB000008
C703	EEVHB1C100	E. CAPACITOR 16V 10U	1		IC251	DAC10GS	IC	1	
C704-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		IC253	TLCX244FT	IC	1	
C708	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC254	TLCX240FT	IC	1	
C708	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	FOR VEP83538A	IC256	XC62FP3302P	IC	1	
C709	EEVHB1A330	E. CAPACITOR 10V 33U	1		IC257	TC7W125FU	IC	1	
C710, 11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC400	TLCX74FT	IC	1	
C712	EEVHB1C100	E. CAPACITOR 16V 10U	1		IC400	UPD82277N003	IC	1	FOR VEP83538A
C713-19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7		IC401	TC7WH125FU	IC	1	
C720	EEVHPQJ470	E. CAPACITOR 6.3V 47U	1		IC401	TLCX240FT	IC	1	FOR VEP83538A
C721, 22	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC500	D4564163A10B	IC	1	FOR VEP83538A
C724	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC500	IDTLVC16245F	IC	1	
C725	EEVHB1A330	E. CAPACITOR 10V 33U	1		IC501	D4564163A10B	IC	1	FOR VEP83538A
C726, 27	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC501	IDTLVC16245F	IC	1	
C728	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1		IC502	D4564163A10B	IC	1	FOR VEP83538A
C729	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	1		IC502	IDTLVC16245F	IC	1	
C730	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1		IC503	D4564163A10B	IC	1	FOR VEP83538A
C733	ECUX1H020CCV	C. CAPACITOR CH 50V 2P	1		IC503	IDTLVC16245F	IC	1	
C735	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		IC504	D4564163A10B	IC	1	FOR VEP83538A
C736	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1		IC504	TLCX245FT	IC	1	
C743	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC505	D4564163A10B	IC	1	FOR VEP83538A
C744	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		IC505	DS90LV048A	IC	1	
C745	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC506	D4564163A10B	IC	1	FOR VEP83538A
C755, 56	EEVHB1A330	E. CAPACITOR 10V 33U	2		IC506	TC7WH125FU	IC	1	
C757, 58	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC507-11	D4564163A10B	IC	5	FOR VEP83538A
C761-63	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		IC512-15	D4564441A10	IC	4	FOR VEP83538A
C803-10	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8		IC601, 02	SN74S1053NS	IC	2	
C811	EEVHB1A330	E. CAPACITOR 10V 33U	1		IC603, 04	IDTLVC16245F	IC	2	
C812	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		IC605	UPD659436028	IC	1	
C813, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC606-08	C3HBDCC000007	IC	3	
					IC609	TVHT08FT	IC	1	
D101, 02	MA142K	DIODE	2		IC700, 01	ADV7171KS	IC	2	COZBZ0000175
D150	MA3J14300L	DIODE	1		IC701	TVHT244FT	IC	1	FOR VEP83538A
D200	MA142K	DIODE	1		IC702	AD8184AR	IC	1	
D201	MA3J14300L	DIODE	1		IC702	IDTLVC16374F	IC	1	FOR VEP83538A
D251	MA3J14300L	DIODE	1		IC703	AD8056AR	IC	1	COABBB000156
					IC704	VLF1482	FILTER	1	JOE7004A0006
IC1	TVHT244FT	IC	1		IC705, 06	AD8184AR	IC	2	
IC3	COEBE0000073	IC	1		IC709	COEBE0000073	IC	1	FOR VEP83538A
IC4, C5	LT1129CS8	IC	2		IC800, 01	TLCX574FT	IC	2	
IC6	LT1175CS8	IC	1		IC802	TLCX245FT	IC	1	
IC7	TC7S04FU	IC	1		IC803	TLCX257FT	IC	1	
IC101	AN91A12S	IC	1		IC804	TLCX125FT	IC	1	
IC102	NE521D	IC	1	COBBBB000013	IC805, 06	DS90LV047A	IC	2	
IC103	SN74LS123NS	IC	1		IC807	XC62FP3302P	IC	1	
IC104	CLC505AJE	IC	1	COABAB000024	IC808	IDTLVC16374F	IC	1	
IC105	GS4981-C	IC	1		IC809	TC7WH125FU	IC	1	
IC106	TC7W00FU	IC	1						
IC107	COJBAM000088	IC	1		ID2	VVVS13496	SOFTWARE	1	
IC150	NJM082BM	IC	1	COABEB000017	ID700	VVVS13497	SOFTWARE	1	FOR VEP83538A
IC151	THC4053FT	IC	1						
IC152	NJM082BM	IC	1	COABEB000017	IP2	EPC2TC32	IC	1	
IC154	TC7WH125FU	IC	1		IP304	C1ZBZ0001794	IC	1	FOR VEP83538A
IC155	MM74HC221AM	IC	1	COJBAM000078	IP400	C1ZBZ0001791	IC	1	
IC156	TVHC04FT	IC	1		IP600	C1ZBZ0001794	IC	1	
IC157, 58	MM74HC221AM	IC	2	COJBAM000078	IP700	EPC2TC32	IC	1	FOR VEP83538A
IC159, 60	TC7SH08FU	IC	2						
IC161	UPD65650J203	IC	1	C1ZBZ0001380	L2-L6	VLF1151A132	COIL	5	
IC162	COJBAM000088	IC	1		L7	VLP0183	COIL	1	JOJCK0000007
IC163	TC7W53F	IC	1		L8-10	VLF1151A132	COIL	3	
IC200	IDTLVC16374F	IC	1	FOR VEP83538A	L100	VLP0183	COIL	1	JOJCK0000007 FOR VEP83538A
IC200	TVHT08FT	IC	1		L101	VLF1151A132	COIL	1	FOR VEP83538A
IC201	IDTLVC16374F	IC	1	FOR VEP83538A	L101, 02	VLQ0319K470	COIL	2	G1C470K00013
IC201	TC7W125FU	IC	1		L103	VLQ0319K221	COIL	220UH	G1C221K00010
IC202	IDTLVC16245F	IC	1	FOR VEP83538A	L104	VLQ0163J680	COIL	68UH	
IC202	NJM082BM	IC	1	COABEB000017	L150	VLQ0163J470	COIL	47UH	
IC203	IDTLVC16245F	IC	1	FOR VEP83538A	L151	VLQ0163J221	COIL	220UH	G1C221J00003
IC203	TC7W53F	IC	1		L200, 01	VLQ0163J470	COIL	47UH	

Components identified with the mark Δ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L250, 51	VLQ0163J220	COIL 22UH	2		R192	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
L252, 53	VLQ0163J470	COIL 47UH	2		R193	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
L700-02	VLQ0319K100	COIL 10UH	3	G1C100K00023	R194	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
L703, 04	VLQ0163J5R6	COIL 5. 6UH	2		R195	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
L705	VLQ0163J180	COIL 18UH	1	G1C180J00001	R196	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
L711, 12	VLQ0319K100	COIL 10UH	2	G1C100K00023	R197	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
					R200	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002	R201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B000038	R201	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
P3	VJP3125B008	CONNECTOR (MALE)	1		R202	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1	
P100	VJP3978A120E	CONNECTOR (MALE)	1	FOR VEP83538A	R203	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
P500	VJS3978A120A	CONNECTOR (FEMALE)	1		R203	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
P700	VJP3125B008	CONNECTOR (MALE)	1	FOR VEP83538A	R204	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
					R204	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
Q700	2SB709A	TRANSISTOR	1		R205	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
Q701	YN4501	TRANSISTOR-RESISTOR	1		R206	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
					R206	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
QR1	UN2214	TRANSISTOR-RESISTOR	1		R207	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A
					R208, 09	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R1	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R210	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R2-R4	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3		R211	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R5	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1		R212	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R6	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R213	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R7	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1		R216	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R8-10	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3		R216	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R14, 15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R217	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R16, 17	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R221	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R100, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	FOR VEP83538A	R223	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R101	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R224	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R102	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A	R226	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R102	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1		R230	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R103	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A	R231	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R103	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R233	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R104	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8. 2K	1		Δ R233	ERJ6GEYJ220	M. RESISTOR CH 1/10W 0	1	
R105	ERJ3RBD822	M. RESISTOR CH 1/16W 8. 2K	1		R234	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R106	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1		R234	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R107	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R235, 36	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A
R108-10	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	3		R237	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R111	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R237	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R112	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1		R238	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R113	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R239	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R114	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		Δ R239	ERJ6GEYJ220	M. RESISTOR CH 1/10W 0	1	
R115	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1		R248, 49	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A
R116	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1		R250	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R117, 18	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R250	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R119	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1		R251	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R120	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	1		R251	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R121	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R252	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R122	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1		R252	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R123	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R253	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R124	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R253	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R150	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1		R254	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R151, 52	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2		R255, 56	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	2	
R153	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R256	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A
R154	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R257	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
R155	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R257	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R156	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R258	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
R157	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R258	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R158, 59	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R260	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A
R160	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R260	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R162	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		R261	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R163	ERJ3RBD822	M. RESISTOR CH 1/16W 8. 2K	1		R262	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R164	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1		R262	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R165	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R263	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R166	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2. 7K	1		R263	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R167	ERJ3RBD152	M. RESISTOR CH 1/16W 1. 5K	1		R264	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R168, 69	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2		R265	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R170	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R269	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R171-76	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	6		R270	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R177	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R273	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R178	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1		R273	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R179, 80	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R274	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1	
R181	ERJ3GEYJ220	M. RESISTOR CH 1/16W 0	1		R274	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R182, 83	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R278	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R186-90	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	5		R278	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R279	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R715	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R283	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		R716	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A
R283	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A	R716	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R284	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R717	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83538A
R285	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A	R718	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A
R288	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		R718, 19	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R289	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R720	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R292	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		R721	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R294	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A	R721	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A
R295	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R722	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R296	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83538A	R723	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R298	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A	R724	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R302	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	FOR VEP83538A	R725	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	FOR VEP83538A
R303	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R729, 30	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	FOR VEP83538A
R305, 06	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A	R731	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R308	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R732	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R312, 13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2		R734	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A
R327	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A	R734	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R330	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A	R735, 02	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	FOR VEP83538A
R351	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83538A	R736	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R352	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	FOR VEP83538A	R737	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A
R353	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A	R738	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R354	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A	R739	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R355	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A	R743	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R356	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A	R743	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R357, 58	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A	R744, 02	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A
R360	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A	R745	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R365, 66	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A	R746	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R373, 74	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	FOR VEP83538A	R746	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R386	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83538A	R747	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83538A
R389	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83538A	R747	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R390	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83538A	R748	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R396, 97	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	FOR VEP83538A	R749	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R398	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	FOR VEP83538A	R764	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R402, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R767, 68	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R405	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R800-02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R406, 07	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2		R803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R408-10	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	3		R810	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R410	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83538A	R811-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	13	
R411	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83538A	R825-29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R411	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R830	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R412-14	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	FOR VEP83538A	R831-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R418, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	FOR VEP83538A	R835	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R422-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	83	FOR VEP83538A	R836, 37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R505	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	FOR VEP83538A	R838	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R506	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83538A	R839, 40	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R507	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	FOR VEP83538A	R841	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R508, 09	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	FOR VEP83538A	R842-51	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R512, 13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83538A	R900-03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R532-47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	16		R904-35	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	32	
R564-71	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	8		R936	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R588-95	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	8		R937	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R600-02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R938-40	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R603-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		R941	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R606, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R943	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R608-33	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	26		R944-48	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R638	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R949	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R639	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1						
R640	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		TG1	EYF6CU	TEST POINT	1	
R643, 44	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		TG100, 01	EYF6CU	TEST POINT	2	
R648	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		TG104	EYF6CU	TEST POINT	1	FOR VEP83538A
R650	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		TG201, 02	EYF6CU	TEST POINT	2	
R655	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1						
R700, 01	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		TP101-05	EYF6CU	TEST POINT	5	
R702	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1		TP151, 52	EYF6CU	TEST POINT	2	
R703, 04	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		TP154-58	EYF6CU	TEST POINT	5	
R705-08	ERJ3RED750	M. RESISTOR CH 1/16W 75	4		TP200, 01	EYF6CU	TEST POINT	2	
R709	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1		TP406, 07	EYF6CU	TEST POINT	2	
R710	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1						
R711	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		VR101	EVM7JGAA00B54	V. RESISTOR	50K	1
R712	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		VR150	EVM7JGAA00B53	V. RESISTOR	5K	1
R712	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83538A	VR151	EVM7JGAA00B54	V. RESISTOR	50K	1
R713	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	FOR VEP83538A	VR152	EVM7JGAA00B14	V. RESISTOR	10K	1
R713	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1		VR153	EVM7JGAA00B53	V. RESISTOR	5K	1
R714	ERJ3RBD431	M. RESISTOR CH 1/16W 430	1		VR200	EVM7JGAA00B53	V. RESISTOR	5K	1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C207	ECST0JC686	T. CAPACITOR CH6. 3V 68U	1	FOR VEP83459B	IC13	MC10EL16D	IC	1	COJBZZ000015 FOR VEP83460B
C208	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	FOR VEP83459B	IC14	UPC2726T	IC	1	FOR VEP83460B
C209	ECST0JC686	T. CAPACITOR CH6. 3V 68U	1	FOR VEP83459B	IC3001	TVHC245FT	IC	1	
C210	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	FOR VEP83459B	IC3101	LT1086CM33	IC	1	
C211	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	FOR VEP83459B	IC3102	XC62FP5002P	IC	1	
C212	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	FOR VEP83459B	IC3103	LT1175CS8	IC	1	
C213	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	FOR VEP83459B	IC3104	XC62FP3302P	IC	1	
C214	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	FOR VEP83459B	IC3141	DS90LV048A	IC	1	
C215	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	FOR VEP83459B	IC3142	TLCX574FT	IC	1	
C216-18	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	3	FOR VEP83459B	IC3143	TVHC245FT	IC	1	
C3001. 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	2		IC3145	TLCX125FT	IC	1	
C3101-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	4		IC3150	TLCX125FT	IC	1	
C3105-08	EEVHBOJ330	E. CAPACITOR 6. 3V 33U	4		IC3153	TLCX125FT	IC	1	
C3109-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	8		IC3158	TLCX125FT	IC	1	
C3117	F3K0J3360001	T. CAPACITOR CH6. 3V 33U	1		IC3162	DS90LV047A	IC	1	
C3118	EEVHB1A330	E. CAPACITOR 10V 33U	1		IC3164	TLCX125FT	IC	1	
C3119	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1		IC3168, 69	TLCX125FT	IC	2	
C3120	EEVHBOJ330	E. CAPACITOR 6. 3V 33U	1		IC3170	DS90LV048A	IC	1	
C3121	EEVHB1A330	E. CAPACITOR 10V 33U	1		IC3172	TLCX125FT	IC	1	
C3141-52	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	12		IC3226-28	TLCX574FT	IC	3	
C3154	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		IC3229	TLCX125FT	IC	1	
C3231-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	5		IC3233	TLCX125FT	IC	1	
C3281-84	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	4		IC3311-14	MS51V8221-3G	IC	4	
C3311-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	4		IC3361, 62	MS51V8221-3G	IC	2	
C3361, 62	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	2		IC3411, 12	MS51V8221-3G	IC	2	
C3411, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	2		IC3431-34	TLCX574FT	IC	4	
C3431-34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	4		IC3481-84	TLCX574FT	IC	4	
C3514-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	10		IC3486-89	TLCX574FT	IC	4	
C3591	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		IC3490, 91	TVHC245FT	IC	2	
C3592-02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	11		IC3591	C1ZBZ0001794	IC	1	
C3603	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		IC3593	GOEBE0000073	IC	1	
C3621-28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	8		IC3621, 22	D4564163A10B	IC	2	
C3641	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		IC3641	C1ZBZ0001794	IC	1	
C3642-49	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	8		IC3671, 72	D4564163A10B	IC	2	
C3650	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		IC3741-43	SN74S1051NS	IC	3	
C3671-78	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	8		IC3744-48	TLCX245FT	IC	5	
C3691-94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	4		IC3749	TC7S04FU	IC	1	
C3741	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		IC3771, 72	TLCX574FT	IC	2	
C3742-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	9		IC3773	C1ZBZ0001791	IC	1	
C3771, 72	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	2		IC3801	GS9023-CFY	IC	1	
C3773	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		IC3802	GS9032-CVM	IC	1	
C3774-83	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	10		IC3803	XC62FP5002P	IC	1	
C3784	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1						
C3801-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	4		ID0	VVVS13504	SOFTWARE	1	
C3806-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	6						
C3812	EEVHBOJ330	E. CAPACITOR 6. 3V 33U	1		IP3281	EPW7256AE107	PLD	1	
C3813	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		IP3592	EPC2TC32	IC	1	
C3814	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		IP3691	EPW7128AE107	IC	1	C1ZBZ0001565
C3815	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		IP3774	EPC2TC32	IC	1	
D1	MA716	DIODE	1	FOR VEP83459B	J1	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83459B
D3	HSMS-2823	DIODE	1	FOR VEP83459B	J2	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83459B
D4	HSMS-2824	DIODE	1	FOR VEP83459B	J3	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83459B
D5	MA3J14300L	DIODE	1	FOR VEP83459B	J4	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83460B
D6	MA142WK	DIODE	1	FOR VEP83459B	J4	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055 FOR VEP83459B
D7	MA142K	DIODE	1	FOR VEP83459B	J5	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83460B
D80	MA142K	DIODE	1	FOR VEP83460B	J6	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055 FOR VEP83460B
D3101	MA716	DIODE	1		J3801	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003
D3102, 03	MA701A	DIODE	2						
FL3771-73	EZAST33AAAJ	FILTER	3		L1	VLQ0441K4R7	COIL 4. 7UH	1	FOR VEP83460B
					L1	VLQ078210N	COIL	1	G1C10NGA0001 FOR VEP83459B
IC1	C9ZB00000361	IC	1	FOR VEP83460B	L2	VLP0183	COIL	1	JOJGC0000007 FOR VEP83460B
IC1, C2	IVA-14208	IC	2	COAAAA000033 FOR VEP83459B	L2	VLQ078210N	COIL	1	G1C10NGA0001 FOR VEP83459B
IC2	LVTH244APW	IC	1	COJBBZ000174 FOR VEP83460B	L3	VLP0183	COIL	1	JOJGC0000007 FOR VEP83460B
IC3	FMM4039XC	IC	1	FOR VEP83460B	L3	VLQ078210N	COIL	1	G1C10NGA0001 FOR VEP83459B
IC3	MC10EL16D	IC	1	COJBZZ000015 FOR VEP83459B	L4	VLQ0441K4R7	COIL 4. 7UH	1	FOR VEP83460B
IC4	UPC2726T	IC	1	FOR VEP83459B	L4	VLQ07828N2	COIL	1	G1C8N2ZA0001 FOR VEP83459B
IC5	NJM062V	IC	1	FOR VEP83459B	L5	VLQ078268N	COIL	1	G1C68NGA0001 FOR VEP83459B
IC6	AD8005ART	IC	1	FOR VEP83459B	L6	VLP0173	COIL	1	JOJGC0000015 FOR VEP83459B
IC7, C8	UPC2726T	IC	2	FOR VEP83459B	L7	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83459B
IC9	C1AB00001315	IC	1	FOR VEP83459B	L9	VLQ07821N0	COIL	1	G1C1N0Z00004 FOR VEP83459B
IC10	C9ZB00000361	IC	1	FOR VEP83459B	L10	VLP0173	COIL	1	JOJGC0000015 FOR VEP83459B
IC10	NJM062V	IC	1	FOR VEP83460B	L10	VLQ07823N3	COIL	1	G1C3N3ZA0001 FOR VEP83460B
IC11	LVTH244APW	IC	1	COJBBZ000174 FOR VEP83459B	L11	VLP0173	COIL	1	JOJGC0000015 FOR VEP83459B
					L101-04	VLQ07823N3	COIL	4	G1C3N3ZA0001 FOR VEP83460B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L201	VLP0183	COIL	1	JOJCK0000007 FOR VEP83459B	R26	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83459B
L202	VLQ0441K4R7	COIL 4.7UH	1	FOR VEP83459B	R27	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	FOR VEP83459B
L203	VLP0183	COIL	1	JOJCK0000007 FOR VEP83459B	R28	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
L204, 05	VLQ0441K4R7	COIL 4.7UH	2	FOR VEP83459B	R28	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B
L3101-04	VLFI1151A132	COIL	4		R29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
L3801, 02	VLQ0426J010	COIL 1UH	2		R29	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B
					R30	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
P3001	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002	R30	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	FOR VEP83459B
P3002	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B000038	R31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
P3003	VJP3125B008	CONNECTOR (MALE)	1		R31	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B
P3221	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A000020	R32	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	FOR VEP83459B
P3721	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A000020	R33	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
					R33	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	FOR VEP83459B
Q1	2SC5185	TRANSISTOR	1	FOR VEP83459B	R34-02	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	FOR VEP83460B
Q2	2SC5185	TRANSISTOR	1	FOR VEP83459B	R36	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B
Q2	2SC5185	TRANSISTOR	1	FOR VEP83460B	R37	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	FOR VEP83459B
Q3	2SC3583	TRANSISTOR	1	FOR VEP83460B	R37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
Q3	2SC5185	TRANSISTOR	1	FOR VEP83459B	R38	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	FOR VEP83459B
Q4	2SB1218A-R	TRANSISTOR	1	FOR VEP83459B	R39	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
Q5	2SC3583	TRANSISTOR	1	FOR VEP83460B	R39	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B
Q5	2SC5013	TRANSISTOR	1	FOR VEP83459B	R40	ERJ3GEYJ106	M. RESISTOR CH 1/16W 10M	1	FOR VEP83459B
Q6	2SC5185	TRANSISTOR	1	FOR VEP83460B	R41	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
Q6	2SD1819A-R	TRANSISTOR	1	FOR VEP83459B	R41	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	FOR VEP83459B
Q7	2SC5185	TRANSISTOR	1	FOR VEP83460B	R42	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
Q7-Q9	2SD1819A-R	TRANSISTOR	3	FOR VEP83459B	R42	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	FOR VEP83459B
Q10, 11	XP4601	TRANSISTOR-RESISTOR	2	FOR VEP83459B	R43	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	FOR VEP83459B
Q12, 13	2SC5185	TRANSISTOR	2	FOR VEP83459B	R43	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
Q14, 15	2SC3583	TRANSISTOR	2	FOR VEP83459B	R44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B
					R44	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
QR3591	UN2214	TRANSISTOR-RESISTOR	1		R45	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B
					R45	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
R1	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R46	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83460B
R1	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	FOR VEP83459B	R46	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	FOR VEP83459B
R2	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R47	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83460B
R2	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	FOR VEP83459B	R47	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	FOR VEP83459B
R3	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R48, 49	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	FOR VEP83460B
R3	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83459B	R49	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83459B
R4	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	FOR VEP83459B	R50	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83460B
R4	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R51, 52	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83460B
R5	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	FOR VEP83459B	R52	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83459B
R6	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R53	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
R6	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R53	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83459B
R7	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	FOR VEP83459B	R54	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
R7	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R54	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	FOR VEP83459B
R8	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	FOR VEP83459B	R55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
R9	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R55	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	FOR VEP83459B
R9	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B	R56	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83459B
R10	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R57	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B
R10	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B	R57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	FOR VEP83459B
R11	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83459B	R58	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83460B
R11, 02	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83460B	R58	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	FOR VEP83459B
R12	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83459B	R59	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83459B
R13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R60	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83460B
R13	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	FOR VEP83459B	R60	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B
R14	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83459B	R61	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83460B
R14, 02	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83460B	R61	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	FOR VEP83459B
R15	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83459B	R62	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	FOR VEP83459B
R16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R63	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83460B
R16	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83459B	R63	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	FOR VEP83459B
R17	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R64, 65	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	FOR VEP83460B
R17	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B	R65	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	FOR VEP83459B
R18	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R66	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	FOR VEP83459B
R18	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B	R67	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83460B
R19	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R67	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	FOR VEP83459B
R19	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B	R68	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	FOR VEP83459B
R20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R68	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R20	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83459B	R69	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	FOR VEP83459B
R21	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	FOR VEP83459B	R70	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83460B
R22	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R71	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	FOR VEP83460B
R22	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83459B	R71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B
R23	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B	R72	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	FOR VEP83459B
R24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R73	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	FOR VEP83459B
R24	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	FOR VEP83459B	R75, 76	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	FOR VEP83459B
R25	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83459B	R77	VLQ07828N2	COIL	1	G1C8N2ZA0001 FOR VEP83459B
R26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83460B	R78	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83459B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R79	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83459B	R129	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	FOR VEP83460B
R80	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	FOR VEP83460B	R129	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83459B
R80	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83459B	R130	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B
R81	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83459B	R130	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B
R81	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	FOR VEP83460B	R131	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	FOR VEP83459B
R82	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	FOR VEP83460B	R132	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B
R82	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R133	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	FOR VEP83460B
R83	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	FOR VEP83460B	R134	ERJ3GEYJ180	M. RESISTOR CH 1/16W 18	1	FOR VEP83460B
R83	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R135	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	FOR VEP83460B
R84	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	FOR VEP83460B	R136, 37	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	FOR VEP83460B
R84, 85	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83459B	R138	ERJ3GEYJ180	M. RESISTOR CH 1/16W 18	1	FOR VEP83460B
R85	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83460B	R139	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	FOR VEP83460B
R86	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R140	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	FOR VEP83459B
R86	ERJ3GEYJ510	M. RESISTOR CH 1/16W 51	1	FOR VEP83460B	R141	ERJ6RBD751	M. RESISTOR CH 1/10W 750	1	FOR VEP83460B
R87	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R142	ERJ6RBD151	M. RESISTOR CH 1/10W 150	1	FOR VEP83460B
R87	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	FOR VEP83460B	R143	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83460B
R88	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R144	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B
R88	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	FOR VEP83460B	R145	VRE006622152	M. RESISTOR CH 1/10W 1.5K	1	DOYD152JA008 FOR VEP83460B
R89	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R146, 47	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	FOR VEP83460B
R89	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B	R150-53	ERJ3RED150	M. RESISTOR CH 1/16W 15	4	FOR VEP83460B
R90, 91	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	FOR VEP83459B	R155	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	FOR VEP83460B
R91	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	FOR VEP83460B	R201-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	23	FOR VEP83459B
R92-01	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	FOR VEP83459B	R225	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B
R101	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B	R226-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	FOR VEP83459B
R102	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R232-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	FOR VEP83459B
R102	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B	R235	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83459B
R103	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83459B	R3001-32	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	32	
R103	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83460B	R3033	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R104	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	FOR VEP83459B	R3035-39	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	5	
R104	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83460B	R3040	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B	R3041, 42	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R105	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	FOR VEP83460B	R3043	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R106	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R3045-47	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R106	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	FOR VEP83460B	R3048	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R107	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	FOR VEP83460B	R3051	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R107, 08	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	FOR VEP83459B	R3053	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R108	ERJ3GEYJ820	M. RESISTOR CH 1/16W 82	1	FOR VEP83460B	R3055	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R109	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	FOR VEP83460B	R3058	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R109	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83459B	R3059	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R110	ERJ3GEYJ820	M. RESISTOR CH 1/16W 82	1	FOR VEP83460B	R3063	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R110	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	FOR VEP83459B	R3134	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R111	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	FOR VEP83460B	R3141	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R111	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83459B	R3142	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R112	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B	R3143	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R112	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	FOR VEP83459B	R3144	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R113	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FOR VEP83459B	R3145-51	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R114	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83460B	R3152	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R115	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	FOR VEP83460B	R3154	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R115	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B	R3156	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R116	ERJ3GEYJ180	M. RESISTOR CH 1/16W 18	1	FOR VEP83460B	R3159	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R116	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B	R3160	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R117	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	FOR VEP83460B	R3162	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R117	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	FOR VEP83459B	R3166, 67	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R118	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B	R3168-73	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R118	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83460B	R3174	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R119	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	FOR VEP83459B	R3176	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R119	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	FOR VEP83460B	R3178	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R120	ERJ3GEYJ180	M. RESISTOR CH 1/16W 18	1	FOR VEP83460B	R3180	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R120	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83459B	R3182	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R121	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	FOR VEP83460B	R3183	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R121	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	FOR VEP83459B	R3185	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R122	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	FOR VEP83459B	R3189, 90	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R122	ERJ6RED270	M. RESISTOR CH 1/10W 27	1	FOR VEP83460B	R3193, 94	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R123	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83460B	R3195, 96	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R123	VRE006610102	M. RESISTOR CH 1/10W 1K	1	DOYD102JA007 FOR VEP83459B	R3200-02	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R124	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	FOR VEP83459B	R3203	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R124	ERJ6RED270	M. RESISTOR CH 1/10W 27	1	FOR VEP83460B	R3204-07	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R125	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	FOR VEP83460B	R3208	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R125	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	FOR VEP83459B	R3210-14	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R126	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	FOR VEP83459B	R3215	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R126	ERJ3GEYJ820	M. RESISTOR CH 1/16W 82	1	FOR VEP83460B	R3216	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R127	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	FOR VEP83460B	R3221-25	D1H84734A008	COMBI. R-R	5	
R127	ERJ3RED620	M. RESISTOR CH 1/16W 62	1	FOR VEP83459B	R3226, 27	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R128	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP83459B	R3228	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R128	ERJ3GEYJ820	M. RESISTOR CH 1/16W 82	1	FOR VEP83460B	R3229, 30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3231	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		VR2	EVM7JGA00B53	V. RESISTOR 5K	1	FOR VEP83459B
R3233	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		VR3	EVM7JGA00B14	V. RESISTOR 10K	1	FOR VEP83459B
R3235	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		VR5	EVM7JGA00B13	V. RESISTOR 1K	1	FOR VEP83459B
R3238	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1						
R3239-42	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4		X1	VSX1057	CRYSTAL OSCILLATOR	1	H4G1487B0001 FOR VEP83459B
R3246	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		X1	VSX1057	CRYSTAL OSCILLATOR	1	H4G1487B0001 FOR VEP83460B
R3249	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1						
R3253	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1				MISCELLANEOUS		
R3254-56	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3						
R3257	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		VK00572	P. C. BOARD CATCHER (L)	1		
R3259	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		VK00573	P. C. BOARD CATCHER (R)	1		
R3281	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		XNG3ES	NUT	2		
R3282	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		XYN3+K8	SCREW	2		
R3283	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		XYN2+J6	SCREW	2		
R3284	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		VMS4950	P. C. B. POST	8		
R3285, 86	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2		XYN26+J6	SCREW	13		
R3431, 32	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		VEP83459B	HD SDI RX P. C. BOARD	1		
R3433-48	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16		VSC4946	SHIELD COVER	1	FOR VEP83459B	
R3449, 50	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		VSC4947	SHIELD COVER	1	FOR VEP83459B	
R3451-66	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16		VSC4948	SHIELD COVER	1	FOR VEP83459B	
R3512	D1H84734A008	COMBI. R-R	1		VEP83460B	HD SDI TX P. C. BOARD	1		
R3513, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2						
R3515-19	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5						
R3521	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1						
R3594	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1						
R3595	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1						
R3597-02	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6		■ E4	VEP85194A	RF/EQ P. C. BOARD	1	(RTL)
R3605	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1						
R3644	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1						
R3645	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C5001, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
R3647, 48	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		C5004-28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	25	
R3691	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C5031-33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
R3692	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		C5051-66	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16	
R3693	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C5069-78	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
R3694	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C5101-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
R3721-23	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3		C5104	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
R3724	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C5105	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3741-43	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		C5111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3744	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C5113	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3745	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C5114	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
R3746, 47	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		C5121-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
R3749	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C5124	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
R3750-57	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	8		C5131	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3772, 73	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		C5133	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3778	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		C5134	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
R3779	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C5201-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
R3780	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C5301, 02	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
R3781-84	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4		C5305	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3786	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C5307	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
R3788	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C5308	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
R3801	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C5309-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
R3802, 03	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2		C5312, 13	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
R3804	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C5314	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
R3805	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C5315, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
R3806-15	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	10		C5317, 18	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
R3816, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		C5321	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
R3819	ERJ3RHD3740	M. RESISTOR CH 1/16W 370K	1		C5322, 23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
R3821	ERJ3RED510	M. RESISTOR CH 1/16W 51	1		C5324	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
R3823	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C5325, 26	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
R3824	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C5327	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
R3825-29	ERJ6RED750	M. RESISTOR CH 1/10W 75	5		C5328	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	1	
					C5329	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
SW1	VSS0367-02B	SWITCH	1	FOR VEP83459B	C5331, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
					C5333-35	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
TG1	VJR0646	TEST POINT	1	DOX0R0000022 FOR VEP83459B	C5336, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
TG3001-05	EYF6CU	TEST POINT	5		C5338	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
					C5339	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	
TP9	EYF6CU	TEST POINT	1	FOR VEP83460B	C5340	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
TP3141-43	EYF6CU	TEST POINT	3		C5341	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
TP3221, 22	EYF6CU	TEST POINT	2		C5343, 44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
TP3591-94	EYF6CU	TEST POINT	4		C5345	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
TP3771, 72	EYF6CU	TEST POINT	2		C5351-66	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16	
					C5367	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
VR1	EVM7JGA00B52	V. RESISTOR 500	1	FOR VEP83459B	C5368	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
VR2	EVM7JGA00B13	V. RESISTOR 1K	1	FOR VEP83460B	C5369-74	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5375	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		C5645	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C5376	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1		C5651-66	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16	
C5377	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5667	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C5378	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		C5668	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5379, 80	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C5669-74	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	6	
C5381, 82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5675	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5383	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C5676	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C5385, 86	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5677	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5388	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		C5678	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5389, 90	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5679, 80	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5391	ECUX0J225KBN	C. CAPACITOR CH6. 3V 2.2U	1		C5681, 82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5451, 52	ECUX1C105KBN	C. CAPACITOR CH 16V 1U	2		C5683	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5455	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5685, 86	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5457	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5688	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C5458	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C5689, 90	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5459-61	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C5691	ECUX0J225KBN	C. CAPACITOR CH6. 3V 2.2U	1	
C5462, 63	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C5751, 52	ECUX1C105KBN	C. CAPACITOR CH 16V 1U	2	
C5464	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1		C5755	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5465, 66	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5757	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5467, 68	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C5758	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C5471	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1		C5759-61	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5472, 73	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5762, 63	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5474	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5764	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C5475, 76	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2		C5765, 66	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5477	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C5767, 68	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5478	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	1		C5771	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C5479	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5772, 73	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5481, 82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5774	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5483-85	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3		C5775, 76	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C5486, 87	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5777	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C5488	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5778	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5489	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1		C5779	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5490	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C5781, 82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5491	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5783-85	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C5493, 94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5786, 87	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5495	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		C5788	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5501-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16		C5789	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	
C5517	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1		C5790	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C5518	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C5791	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5519-24	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	6		C5793, 94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5525	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		C5795	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C5526	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1		C5801-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16	
C5527	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5817	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C5528	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		C5818	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5529, 30	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C5819-24	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	6	
C5531, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5825	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5533	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C5826	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C5535	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5827	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5538	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		C5828	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5539, 40	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5829, 30	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5541	ECUX0J225KBN	C. CAPACITOR CH6. 3V 2.2U	1		C5831, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5601, 02	ECUX1C105KBN	C. CAPACITOR CH 16V 1U	2		C5833	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5605	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5835	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5607	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5838	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C5608	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C5841	ECUX0J225KBN	C. CAPACITOR CH6. 3V 2.2U	1	
C5609-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C5902-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5612, 13	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C5907	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C5614	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1		C5908	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C5615, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5909	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C5617, 18	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C5911	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C5621	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1		C5912, 13	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	2	
C5622, 23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5914, 15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5624	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5916	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5625, 26	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2		C5917	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5627	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C5918	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C5628	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	1		C5920	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	
C5629	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5931, 32	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C5631, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5933, 34	ECST1C2226Z	T. CAPACITOR CH 16V 22U	2	
C5633-35	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3		C5935-40	EEVHB1C220	E. CAPACITOR 16V 22U	6	
C5636, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5942, 43	EEVHB0J220	E. CAPACITOR 6.3V 22U	2	
C5638	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C5944-49	EEVHB1C220	E. CAPACITOR 16V 22U	6	
C5639	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1		C5951	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C5640	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C5952	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	
C5641	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1						
C5643, 44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		D5001	MA3J14300L	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D5901, 02	MA704A	DIODE	2		Q5111	2SD601A-R	TRANSISTOR	1	
D5903, 04	MA701A	DIODE	2		Q5112	2SB709A-R	TRANSISTOR	1	
D5906, 07	MA704A	DIODE	2		Q5121	2SD601A-R	TRANSISTOR	1	
D5908	MA142K	DIODE	1		Q5122	2SB709A-R	TRANSISTOR	1	
					Q5131	2SD601A-R	TRANSISTOR	1	
IC5001, 02	TVHC244FT	IC	2		Q5132	2SB709A-R	TRANSISTOR	1	
IC5003	TC7W241FU	IC	1		Q5301, 02	XP6534	TRANSISTOR-RESISTOR	2	
IC5005, 06	DS90LV048A	IC	2		Q5303, 04	2SK508K512	TRANSISTOR	2	
IC5007	TC7SH04FU	IC	1		Q5305-11	2SC3930	TRANSISTOR	7	
IC5008	TLCX574FT	IC	1		Q5312, 13	2SA1532	TRANSISTOR	2	
IC5009	MC10H124M	IC	1	COJBZZ000020	Q5314	2SC3930	TRANSISTOR	1	
IC5010	TLCX244FT	IC	1		Q5451, 52	XP6534	TRANSISTOR-RESISTOR	2	
IC5013	M623706P	IC	1	COFBBD000082	Q5453, 54	2SK508K512	TRANSISTOR	2	
IC5015-20	THC4053FT	IC	6		Q5455-61	2SC3930	TRANSISTOR	7	
IC5021	NJM064V	IC	1		Q5462, 63	2SA1532	TRANSISTOR	2	
IC5023	NJM064V	IC	1		Q5464	2SC3930	TRANSISTOR	1	
IC5025	NJM064V	IC	1		Q5601, 02	XP6534	TRANSISTOR-RESISTOR	2	
IC5027	NJM064V	IC	1		Q5603, 04	2SK508K512	TRANSISTOR	2	
IC5031, 32	TC4S30F	IC	2	COJBAZ000429	Q5605-11	2SC3930	TRANSISTOR	7	
IC5051, 52	LT1129CS8	IC	2		Q5612, 13	2SA1532	TRANSISTOR	2	
IC5053-56	XC62AP3002P	IC	4		Q5614	2SC3930	TRANSISTOR	1	
IC5058, 59	LT1175CS8	IC	2		Q5751, 52	XP6534	TRANSISTOR-RESISTOR	2	
IC5101	TC4S69F	IC	1	COJBAB000138	Q5753, 54	2SK508K512	TRANSISTOR	2	
IC5102	NJM064V	IC	1		Q5755-61	2SC3930	TRANSISTOR	7	
IC5111	TC4S69F	IC	1	COJBAB000138	Q5762, 63	2SA1532	TRANSISTOR	2	
IC5121	TC4S69F	IC	1	COJBAB000138	Q5764	2SC3930	TRANSISTOR	1	
IC5131	TC4S69F	IC	1	COJBAB000138	Q5901	2SC3930	TRANSISTOR	1	
IC5301	MC1495D	IC	1		Q5902, 03	2SD1979	TRANSISTOR	2	
IC5302-04	UPC1663G	IC	3	C1CB00000329	Q5904	2SC3130	TRANSISTOR	1	
IC5305	MN673796	IC	1		Q5905	2SC3930	TRANSISTOR	1	
IC5306	TLCX574FT	IC	1						
IC5307	DS90LV047A	IC	1		QR5001	UN5111	TRANSISTOR-RESISTOR	1	
IC5308	NJM062V	IC	1		QR5101	UN5211	TRANSISTOR-RESISTOR	1	
IC5451	MC1495D	IC	1		QR5111	UN5211	TRANSISTOR-RESISTOR	1	
IC5452-54	UPC1663G	IC	3	C1CB00000329	QR5121	UN5211	TRANSISTOR-RESISTOR	1	
IC5455	MN673796	IC	1		QR5131	UN5211	TRANSISTOR-RESISTOR	1	
IC5456	TLCX574FT	IC	1		QR5901	UN5211	TRANSISTOR-RESISTOR	1	
IC5458	NJM062V	IC	1						
IC5601	MC1495D	IC	1		R5001-04	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	4	
IC5602-04	UPC1663G	IC	3	C1CB00000329	R5005-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
IC5605	MN673796	IC	1		R5013-16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
IC5606	TLCX574FT	IC	1		R5017, 18	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
IC5607	DS90LV047A	IC	1		R5021-25	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
IC5608	NJM062V	IC	1		R5027-29	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
IC5751	MC1495D	IC	1		R5031	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC5752-54	UPC1663G	IC	3	C1CB00000329	R5032	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
IC5755	MN673796	IC	1		R5033	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
IC5756	TLCX574FT	IC	1		R5034	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC5902	THC4053FT	IC	1		R5035	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
IC5903	NJM1496V	IC	1		R5036	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
IC5904	NJM062V	IC	1		R5041	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
					R5042	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
L5301	VLQ0163JR47	COIL	0. 47UH	1 G1CR47J00004	R5043-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
L5302, 03	VLQ0163JR22	COIL	0. 22UH	2 G1CR22J00002	R5047-50	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
L5304	VLQ0163J6R8	COIL	6. 8UH	1 G1C6R8J00007	R5051, 52	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
L5451	VLQ0163JR47	COIL	0. 47UH	1 G1CR47J00004	R5053	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1	
L5452, 53	VLQ0163JR22	COIL	0. 22UH	2 G1CR22J00002	R5054, 55	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
L5454	VLQ0163J6R8	COIL	6. 8UH	1 G1C6R8J00007	R5056	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1	
L5601	VLQ0163JR47	COIL	0. 47UH	1 G1CR47J00004	R5057	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
L5602, 03	VLQ0163JR22	COIL	0. 22UH	2 G1CR22J00002	R5058	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
L5604	VLQ0163J6R8	COIL	6. 8UH	1 G1C6R8J00007	R5059	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
L5751	VLQ0163JR47	COIL	0. 47UH	1 G1CR47J00004	R5060	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1. 2K	1	
L5752, 53	VLQ0163JR22	COIL	0. 22UH	2 G1CR22J00002	R5061-65	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
L5754	VLQ0163J6R8	COIL	6. 8UH	1 G1C6R8J00007	R5070, 71	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
L5901, 02	VLQ0163J4R7	COIL	4. 7UH	2 G1C4R7J00004	R5072	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
L5903, 04	VLQ0163JR47	COIL	0. 47UH	2 G1CR47J00004	R5073-76	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	4	
L5911-15	VLQ1151A132	COIL		5	R5077-84	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	8	
					R5085-96	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	12	
P5001	VJP4064Q160	CONNECTOR (MALE)		1 K1KBG0B00002	R5101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
P5002	VJS4168B008	CONNECTOR (FEMALE)		1 K1KB08B000038	R5102	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
					R5103	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
Q5001	2SB1218A-R	TRANSISTOR	1		R5104	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
Q5002	2SD1819A-R	TRANSISTOR	1		R5105	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
Q5101	2SD601A-R	TRANSISTOR	1		R5106	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4. 7K	1	
Q5102	2SB709A-R	TRANSISTOR	1		R5107	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5108	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R5315, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5109	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5317	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5110, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R5318	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R5112	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5319, 20	ERJ3RBD151	M. RESISTOR CH 1/16W 150	2	
R5113	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1		R5321, 22	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5114	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5323, 24	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5115	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5326, 27	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R5116	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5328, 29	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5117	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5330, 31	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5118	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R5332, 33	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5119	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5334, 35	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R5120, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R5336, 37	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R5122	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5338	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R5123	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1		R5339	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R5124	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5340	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R5125	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5341	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R5126	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5342	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R5127	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5343	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5128	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R5344	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5129	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5345-47	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5130, 31	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R5348	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5132	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5349, 50	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5133	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1		R5351, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5134	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5353	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R5135	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5354, 55	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R5136	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5356, 57	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5137	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5358	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5138	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R5359	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5139	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5360	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5140	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5361	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5151-53	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R5362	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5201, 02	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5363	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5204, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R5364	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5206, 07	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5365, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5209, 10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R5367	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R5211, 12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5368-70	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5214, 15	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R5371	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5216, 17	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5372, 73	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5219, 20	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R5374	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R5221	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		R5375, 76	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5222	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5377	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5223, 24	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2		R5379	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5225	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5391, 92	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5226-28	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	3		R5393	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5229, 30	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5395	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5231	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5396	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5241	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		R5397, 98	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R5242	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5399	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5243, 44	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2		R5400	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5245	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5401	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5246-48	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	3		R5402	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5249, 50	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5403	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5251	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5404	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5261	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		R5405, 06	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R5262	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5409	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5263, 64	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2		R5410	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5265	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5411	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R5266-68	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	3		R5412	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5269, 70	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5413	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R5271	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5414	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R5281	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		R5415	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R5282	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5417	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5283, 84	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2		R5418	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R5285	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5419	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5286-88	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	3		R5420	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5289, 90	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2		R5421	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R5291	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5422	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R5301-04	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4		R5423	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5305, 06	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5424	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5307, 08	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2		R5425	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5310	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1		R5426-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R5311	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R5432	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5312	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1		R5433	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R5313	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5434	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R5314	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1		R5435	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5436	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1		R5574	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5437	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5575	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5438	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1		R5576-81	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	6	
R5439	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1		R5582	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5440	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1		R5583	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R5442, 43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5584	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R5451-54	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4		R5585	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R5455, 56	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5586	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R5457, 58	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2		R5587	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R5460	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1		R5588	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R5461	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R5589	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R5462	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1		R5590	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R5463	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5592, 93	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5464	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1		R5601-04	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5465, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5605, 06	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5467	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R5607, 08	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R5468	ERJ3RED680	M. RESISTOR CH 1/16W 68	1		R5610	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R5469, 70	ERJ3RBD151	M. RESISTOR CH 1/16W 150	2		R5611	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5471, 72	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5612	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R5473, 74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5613	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5476, 77	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R5614	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R5478, 79	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5615, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5480, 81	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5617	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5482, 83	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5618	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R5484, 85	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2		R5619, 20	ERJ3RBD151	M. RESISTOR CH 1/16W 150	2	
R5486, 87	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R5621, 22	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5488	ERJ3RED820	M. RESISTOR CH 1/16W 82	1		R5623, 24	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5489	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1		R5626, 27	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R5490	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1		R5628, 29	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5491	ERJ3RED820	M. RESISTOR CH 1/16W 82	1		R5630, 31	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5492	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1		R5632, 33	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5493	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5634, 35	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R5494	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R5636, 37	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R5495-97	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3		R5638	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R5498	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5639	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R5499, 00	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5640	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R5501, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5641	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R5503	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5642	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R5504, 05	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R5643	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5506, 07	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5644	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5508	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5645-47	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5509	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R5648	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5510	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5649, 50	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5511	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5651, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5512	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R5653	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R5513	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5654, 55	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R5514	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5656, 57	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5515, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5658	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5517	ERJ6GEYJ681	M. RESISTOR CH 1/10W 680	1		R5659	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5518-20	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3		R5660	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5521	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5661	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5522, 23	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5662	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5524	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1		R5663	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5525, 26	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5664	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5527	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R5665, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5529	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5667	ERJ6GEYJ681	M. RESISTOR CH 1/10W 680	1	
R5541, 42	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2		R5668-70	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5543	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5671	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5545	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R5672, 73	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5546	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R5674	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R5547, 48	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2		R5675, 76	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5549	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R5677	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5550	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R5679	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5551	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5691, 92	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R5552	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R5693	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5557	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R5695	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5559	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5696	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5560	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1		R5697, 98	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R5561	ERJ3RED680	M. RESISTOR CH 1/16W 68	1		R5699	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5562	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5700	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5563	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R5701	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5564	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1		R5702	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5565	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1		R5708	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5567	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R5709	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5568	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R5710	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5711	ERJ3RED680	M. RESISTOR CH 1/16W 68	1		R5841, 42	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5712	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5843	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5713	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R5845	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5714	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1		R5846	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5715	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1		R5847, 48	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R5717	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R5849	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5718	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R5850	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5719	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5851	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5720	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		R5852	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5721	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1		R5857, 58	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5722	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5859	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5723	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5860	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5724	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5861	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R5725	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5862	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5726-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6		R5863	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R5732	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5864	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R5733	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1		R5865	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R5734	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1		R5867	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5735	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1		R5868	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R5736	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1		R5874	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5737	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5875	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5738	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1		R5876-81	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R5739	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1		R5882	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5740	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1		R5883	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R5742, 43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5884	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R5751-54	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4		R5885	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R5755, 56	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5886	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R5757, 58	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2		R5887	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R5760	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1		R5888	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R5761	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R5889	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R5762	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1		R5890	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R5763	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5892, 93	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5764	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1		R5902-05	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R5765, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5906	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5767	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R5907	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5768	ERJ3RED680	M. RESISTOR CH 1/16W 68	1		R5908, 09	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R5769, 70	ERJ3RBD151	M. RESISTOR CH 1/16W 150	2		R5910, 11	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R5771, 72	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5912, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5773, 74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5914	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5776, 77	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R5915	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5778, 79	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5916	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R5780, 81	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5917	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5782, 83	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5918	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R5784, 85	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2		R5919	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R5786, 87	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R5920	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5788	ERJ3RED820	M. RESISTOR CH 1/16W 82	1		R5921	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5789	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1		R5922	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R5790	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1		R5923	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R5791	ERJ3RED820	M. RESISTOR CH 1/16W 82	1		R5924	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5792	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1		R5925	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R5793	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5926	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R5794	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R5927	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5795-97	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3		R5928	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R5798	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5929	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5799, 00	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5930	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R5801, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5931	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R5803	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		R5932	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R5804, 05	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R5933	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5806, 07	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5934	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R5808	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5935	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5809	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5941, 42	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5810	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5947-64	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	18	
R5811	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R5966-87	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	22	
R5812	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5988	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R5813	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1						
R5814	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		RY5901	ATQ229	RELAY	1	K6B2CDB00006
R5815, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2						
R5817	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1		TG5001-03	EYF6CU	TEST POINT	3	
R5818-20	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3		TG5005-07	EYF6CU	TEST POINT	3	
R5821	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1						
R5822, 23	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		TP5001-08	EYF6CU	TEST POINT	8	
R5824	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1		TP5011-13	EYF6CU	TEST POINT	3	
R5825, 26	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		TP5015	EYF6CU	TEST POINT	1	
R5827	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		TP5021-23	EYF6CU	TEST POINT	3	
R5829	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		TP5031-33	EYF6CU	TEST POINT	3	


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5245	EEVHB1C100	E. CAPACITOR 16V 10U	1		IC5111-14	TC4S30F	IC	4	C0JBAZ000429
C5310	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		IC5115	UPC5102GS030	IC	1	C1ZBZ0001316
C5311, 12	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2		IC5211-14	TC4S30F	IC	4	C0JBAZ000429
C5314	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5215	UPC5102GS030	IC	1	C1ZBZ0001316
C5315	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		IC5311-14	TC4S30F	IC	4	C0JBAZ000429
C5316	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5315	UPC5102GS030	IC	1	C1ZBZ0001316
C5319, 20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		IC5501, 02	XC62AP5002P	IC	2	
C5321, 22	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2		IC5503-07	XC62DN5002P	IC	5	
C5324, 25	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2						
C5326-30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		L4001	VLQ0651K391	COIL 390UH	1	G1C391KA0013
C5331-34	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4		L4002	VLQ0423J472	COIL 4700UH	1	
C5335, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		L5001, 02	VLQ0163J121	COIL 120UH	2	G1C121J00001
C5337, 38	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		L5101, 02	VLQ0163J121	COIL 120UH	2	G1C121J00001
C5339-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6		L5201, 02	VLQ0163J121	COIL 120UH	2	G1C121J00001
C5345	EEVHB1C100	E. CAPACITOR 16V 10U	1		L5301, 02	VLQ0163J121	COIL 120UH	2	G1C121J00001
C5401	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		L5401, 02	VLQ0426J2R2	COIL 2.2UH	2	G1C2R2J00008
C5402	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1		L5411, 12	VLQ0426J2R2	COIL 2.2UH	2	G1C2R2J00008
C5403	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		L5421, 22	VLQ0426J2R2	COIL 2.2UH	2	G1C2R2J00008
C5404, 05	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	2		L5431, 32	VLQ0426J2R2	COIL 2.2UH	2	G1C2R2J00008
C5411	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1						
C5412	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1		P4001	VJP3125B009	CONNECTOR (MALE)	1	K1KA09B00055
C5413	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		P5001	VJP4064L140	CONNECTOR (MALE)	1	K1KBE0B00003
C5414, 15	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	2		P5002	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
C5421	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		P5003	VJS3900A024	CONNECTOR (FEMALE)	1	
C5422	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1		P5004	VJS3791B020	CONNECTOR (FEMALE)	1	
C5423	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		P5005	VJP3125B008	CONNECTOR (MALE)	1	
C5424, 25	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	2						
C5431	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		Q4001	2SB779-R	TRANSISTOR	1	
C5432	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1		Q4002	2SD1819A-R	TRANSISTOR	1	
C5433	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		Q4003	2SD874-R	TRANSISTOR	1	
C5434, 35	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	2		Q4004	2SB779-R	TRANSISTOR	1	
C5501-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	19		Q4005	2SD1819A-R	TRANSISTOR	1	
C5521, 22	EEVHB0J220	E. CAPACITOR 6.3V 22U	2		Q4006	2SD874-R	TRANSISTOR	1	
C5523-32	EEVHB1C220	E. CAPACITOR 16V 22U	10		Q4007	2SD1979	TRANSISTOR	1	
C5533-39	EEVHB1A330	E. CAPACITOR 10V 33U	7		Q4008	2SB792-R	TRANSISTOR	1	
					Q4009, 10	2SD1149-R	TRANSISTOR	2	
D4001, 02	MA142K	DIODE	2		Q4011, 12	2SD1979	TRANSISTOR	2	
D4201	MA157	DIODE	1		Q4202	2SD1979	TRANSISTOR	1	
D4203	MA716	DIODE	1		Q5001-04	2SC3935	TRANSISTOR	4	
D5001-04	MA142WK	DIODE	4		Q5005, 06	2SC2954	TRANSISTOR	2	
D5101-04	MA142WK	DIODE	4		Q5007	2SA1532	TRANSISTOR	1	
D5201-04	MA142WK	DIODE	4		Q5008	2SC2954	TRANSISTOR	1	
D5301-04	MA142WK	DIODE	4		Q5009, 10	2SK508K512	TRANSISTOR	2	
					Q5011-14	XN1504	TRANSISTOR-RESISTOR	4	
FL4001	E1R70F012B	TRANSFORMER	1		Q5015	XN6537	TRANSISTOR-RESISTOR	1	
FL4002	VLF1466B223	LINE FILTER	1		Q5016, 17	2SC3930	TRANSISTOR	2	
FL4101	VLF1069	FILTER	1		Q5018, 19	XP6534	TRANSISTOR-RESISTOR	2	
FL4102, 03	VLF1466B223	LINE FILTER	2		Q5101-04	2SC3935	TRANSISTOR	4	
FL5001-06	VLF0931	FILTER	6	F1Y2A1030001	Q5105, 06	2SC2954	TRANSISTOR	2	
					Q5107	2SA1532	TRANSISTOR	1	
IC4001	NJM4580ED	IC	1	COABBB000123	Q5108	2SC2954	TRANSISTOR	1	
IC4101, 02	TVSA0021	IC	2	COABBA000042	Q5109, 10	2SK508K512	TRANSISTOR	2	
IC4103	MC14053BDT	IC	1		Q5111-14	XN1504	TRANSISTOR-RESISTOR	4	
IC4104	TVSA0021	IC	1	COABBA000042	Q5115	XN6537	TRANSISTOR-RESISTOR	1	
IC4105	C0JBAR000242	IC	1	C0JBAR000021	Q5116, 17	2SC3930	TRANSISTOR	2	
IC4106	NJM78L09UA	IC	1	COCBAHC00002	Q5118, 19	XP6534	TRANSISTOR-RESISTOR	2	
IC4107	CXA1552M	IC	1		Q5201-04	2SC3935	TRANSISTOR	4	
IC4108, 09	TVSA0021	IC	2	COABBA000042	Q5205, 06	2SC2954	TRANSISTOR	2	
IC4201	TVSA0021	IC	1	COABBA000042	Q5207	2SA1532	TRANSISTOR	1	
IC4202	TVHC244FT	IC	1		Q5208	2SC2954	TRANSISTOR	1	
IC4203	AK4503VF	IC	1		Q5209, 10	2SK508K512	TRANSISTOR	2	
IC4204	XC62AP3002P	IC	1		Q5211-14	XN1504	TRANSISTOR-RESISTOR	4	
IC4206	TVSA0021	IC	1	COABBA000042	Q5215	XN6537	TRANSISTOR-RESISTOR	1	
IC4207	NJM78L05UA	IC	1	COCBADC00010	Q5216, 17	2SC3930	TRANSISTOR	2	
IC4208	NJM79L05UA	IC	1		Q5218, 19	XP6534	TRANSISTOR-RESISTOR	2	
IC4209	TVHT244FT	IC	1		Q5301-04	2SC3935	TRANSISTOR	4	
IC4210	NJM4580ED	IC	1	COABBB000123	Q5305, 06	2SC2954	TRANSISTOR	2	
IC5001	TVHT244FT	IC	1		Q5307	2SA1532	TRANSISTOR	1	
IC5002	TVHC04FT	IC	1		Q5308	2SC2954	TRANSISTOR	1	
IC5003	TVHC08FT	IC	1		Q5309, 10	2SK508K512	TRANSISTOR	2	
IC5004, 05	TVHC02FT	IC	2		Q5311-14	XN1504	TRANSISTOR-RESISTOR	4	
IC5006	TVHT04FT	IC	1		Q5315	XN6537	TRANSISTOR-RESISTOR	1	
IC5007, 08	NJM064V	IC	2		Q5316, 17	2SC3930	TRANSISTOR	2	
IC5015	UPC5102GS030	IC	1	C1ZBZ0001316	Q5318, 19	XP6534	TRANSISTOR-RESISTOR	2	
IC5101-04	TC4S30F	IC	4	C0JBAZ000429	Q5401, 02	2SC3735B35	TRANSISTOR	2	

Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q5411, 12	2SC3735B35	TRANSISTOR	2		R4125	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5421, 22	2SC3735B35	TRANSISTOR	2		R4126, 27	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
Q5431, 32	2SC3735B35	TRANSISTOR	2		R4128	ERJ3GEYJ203	M. RESISTOR CH 1/16W 10K	1	
					R4130, 31	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
QR4001, 02	UN5113	TRANSISTOR-RESISTOR	2		R4133	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
QR4003	UN5213	TRANSISTOR-RESISTOR	1		R4135	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
QR4004	UN5113	TRANSISTOR-RESISTOR	1		R4137	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
QR4005, 06	UN5213	TRANSISTOR-RESISTOR	2		R4138	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
QR4007	UN5113	TRANSISTOR-RESISTOR	1		R4139	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
QR4201	UN5213	TRANSISTOR-RESISTOR	1		R4140	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
QR4202	UN5113	TRANSISTOR-RESISTOR	1		R4141	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
QR5001-03	UN5111	TRANSISTOR-RESISTOR	3		R4142	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
QR5101-03	UN5111	TRANSISTOR-RESISTOR	3		R4143	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
QR5201-03	UN5111	TRANSISTOR-RESISTOR	3		R4144	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
QR5301-03	UN5111	TRANSISTOR-RESISTOR	3		R4145	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	1	
					R4147	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R4002	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R4148	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.7K	1	
R4003	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4150	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4004	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R4151	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4005	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R4202	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4006	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R4203	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R4007	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1		R4204	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R4008	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1		R4205, 06	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R4009	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1		R4207, 08	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4010	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R4209, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R4011	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4211	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R4012	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R4212	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R4013	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R4213, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R4014	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R4216, 17	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	2	
R4015	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1		R4218	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4016	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1		R4219	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4017	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1		R4220-23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R4018	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R4224	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4021	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4225	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R4024	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R4227, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R4025	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4231	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4026	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R4232	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4027	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R4234	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4028	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4236	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4029	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1		R4237, 38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R4030	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5001	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4031	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5002, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R4032	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1		R5004	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4033	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1		R5005	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R4034	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5006-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R4035	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1		R5009	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4036	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1		R5010, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R4037, 38	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2		R5012, 13	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R4039	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R5014, 15	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2	
R4040	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R5016, 17	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R4041	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R5018, 19	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2	
R4042, 43	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2		R5020, 21	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2	
R4044	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1		R5022, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R4045	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5024	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100	1	
A R4048	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R5025	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R4049	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R5026-29	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	4	
R4101	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5030	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R4102	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R5031	ERJ6RED820	M. RESISTOR CH 1/10W 82	1	
R4103, 04	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2		R5032	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R4105, 06	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R5033-36	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	4	
R4107	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R5037-39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R4108	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R5040-43	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4	
R4109, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R5044-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R4111	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1		R5047-50	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4	
R4112	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R5051	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R4113	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5052, 53	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R4114	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1		R5054, 55	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R4115	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R5056	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R4116	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1		R5057, 58	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R4117	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R5059, 60	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R4118	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5061	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R4119, 20	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5062	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4121	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5063	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4122, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R5064, 65	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R4124	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R5066, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	

Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5068, 69	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5263	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R5070	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1		R5264, 65	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R5071-74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4		R5266, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5079	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5268, 69	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5270	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R5102, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R5271-74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5104	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5279	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5105	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5106-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		R5302, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R5109	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R5304	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5110, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R5305	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R5112, 13	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2		R5306-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R5114, 15	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2		R5309	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R5116, 17	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5310, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5118, 19	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2		R5312, 13	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R5120, 21	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2		R5314, 15	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2	
R5122, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2		R5316, 17	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5124	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R5318, 19	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2	
R5125	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1		R5320, 21	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2	
R5126-29	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	4		R5322, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R5130	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5324	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R5131	ERJ6RED820	M. RESISTOR CH 1/10W 82	1		R5325	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R5132	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5326-29	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	4	
R5133-36	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	4		R5330	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R5137-39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R5331	ERJ6RED820	M. RESISTOR CH 1/10W 82	1	
R5140-43	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4		R5332	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R5144-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R5333-36	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	4	
R5147-50	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4		R5337-39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R5151	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1		R5340-43	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4	
R5152, 53	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5344-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R5154, 55	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5347-50	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4	
R5156	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1		R5351	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5157, 58	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2		R5352, 53	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R5159, 60	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5354, 55	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5161	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1		R5356	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R5162	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1		R5357, 58	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R5163	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1		R5359, 60	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5164, 65	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2		R5361	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R5166, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5362	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R5168, 69	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5363	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R5170	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1		R5364, 65	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R5171-74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4		R5366, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5179	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5368, 69	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R5201	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5370	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R5202, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R5371-74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5204	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R5379	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5205	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5401	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5206-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		R5402	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5209	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R5403	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5210, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R5404	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5212, 13	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2		R5405	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5214, 15	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2		R5406, 07	ERJ6RED560	M. RESISTOR CH 1/10W 56	2	
R5216, 17	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5408	ERJ6RED270	M. RESISTOR CH 1/10W 27	1	
R5218, 19	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2		R5411	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5220, 21	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2		R5412	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5222, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2		R5413	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5224	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R5414	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5225	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1		R5415	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5226-29	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	4		R5416, 17	ERJ6RED560	M. RESISTOR CH 1/10W 56	2	
R5230	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5418	ERJ6RED270	M. RESISTOR CH 1/10W 27	1	
R5231	ERJ6RED820	M. RESISTOR CH 1/10W 82	1		R5421	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5232	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1		R5422	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5233-36	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	4		R5423	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5237-39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R5424	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5240-43	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4		R5425	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5244-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R5426, 27	ERJ6RED560	M. RESISTOR CH 1/10W 56	2	
R5247-50	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	4		R5428	ERJ6RED270	M. RESISTOR CH 1/10W 27	1	
R5251	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1		R5431	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5252, 53	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R5432	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5254, 55	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R5433	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5256	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1		R5434	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5257, 58	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2		R5435	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R5259, 60	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2		R5436, 37	ERJ6RED560	M. RESISTOR CH 1/10W 56	2	
R5261	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1		R5438	ERJ6RED270	M. RESISTOR CH 1/10W 27	1	
R5262	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1		△ R5502	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	

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[illegible]


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL4300	VLF1466B223	LINE FILTER	1		IC4759	THC4052FT	IC	1	
FL4900	VLF1466B223	LINE FILTER	1		IC4760	MC14053BDT	IC	1	
IC4100-02	TVHC244FT	IC	3		IC4761	TVSA0021	IC	1	COABBA000042
IC4103	EP1K50-144-3	PLD	1		IC4762	THC4052FT	IC	1	
IC4105-08	TVHC244FT	IC	4		IC4763, 64	MC14053BDT	IC	2	
IC4109	TC7S04FU	IC	1		IC4765, 66	TVSA0021	IC	2	COABBA000042
IC4110	COEBE0000073	IC	1		IC4767	THC4052FT	IC	1	
IC4200	KM68V1CLT7L	IC	1	C3BAHC000020	IC4768	MC14053BDT	IC	1	
IC4201	XC62FP5002P	IC	1		IC4769	XC62AP5002M	IC	1	COCBADD00005
IC4202	DS90LV048A	IC	1		IC4770	XC62DN5002M	IC	1	
IC4203	UPD65949G076	IC	1		IC4771	XC62AP5002M	IC	1	COCBADD00005
IC4204, 05	PLL1700E	IC	2		IC4772	XC62DN5002M	IC	1	
IC4206	KM68V1CLT7L	IC	1	C3BAHC000020	IC4773	BA6138F	IC	1	
IC4207	UPD65949G076	IC	1		IC4774	XC62AP5002M	IC	1	COCBADD00005
IC4300, 01	SN74S1051NS	IC	2		IC4775	XC62DN5002M	IC	1	
IC4303-05	TLCX541FT	IC	3		IC4900	TC4W53FU	IC	1	
IC4306, 07	TLCX245FT	IC	2		IC4901	MB621926	IC	1	
IC4308	TC7SH04FU	IC	1		IC4902	MSM514800C7J	IC	1	
IC4309-11	UPD71055GB	IC	3		IC4903	TVHC74FT	IC	1	
IC4313	UPD71055GB	IC	1		IC4905	TVHT541FT	IC	1	
IC4400	XC62AP5002M	IC	1	COCBADD00005	IC4906, 07	TVHC164FT	IC	2	
IC4401	TVSA0021	IC	1	COABBA000042	IC4908	TC7SH04FU	IC	1	
IC4402	THC4052FT	IC	1		IC4950	C1BB00000195	IC	1	
IC4403	XC62DN5002M	IC	1		IC4951	NJM4556AM	IC	1	
IC4404	TVSA0021	IC	1	COABBA000042	ID0	VVVS13498	SOFTWARE	1	
IC4405	THC4052FT	IC	1		IP4104	EPC2TC32	IC	1	
IC4406	NJM2100MD	IC	1		IP4302	EPM7032AE441	IC	1	
IC4407	TVSA0021	IC	1	COABBA000042					
IC4408	THC4052FT	IC	1		L4200, 01	VLF1151A132	COIL	2	
IC4409	XC62AP5002M	IC	1	COCBADD00005					
IC4410	TVSA0021	IC	1	COABBA000042	P4001	VJP4064Q160	CONNECTOR (MALE)	1	K1KGB0B00002
IC4411	THC4052FT	IC	1		P4100	VJP3125B008	CONNECTOR (MALE)	1	
IC4412	NJM2100MD	IC	1						
IC4413	XC62DN5002M	IC	1		Q4600-03	2SD1979	TRANSISTOR	4	
IC4414	TVSA0021	IC	1	COABBA000042	Q4750-53	2SB1219A-R	TRANSISTOR	4	
IC4415	THC4052FT	IC	1		Q4950, 51	2SD1979	TRANSISTOR	2	
IC4416	COFBBG000033	IC	1						
IC4417	TVSA0021	IC	1	COABBA000042	QR4101	UN2214	TRANSISTOR-RESISTOR	1	
IC4418	THC4052FT	IC	1		QR4600-03	UN5213	TRANSISTOR-RESISTOR	4	
IC4419	NJM2100MD	IC	1		QR4604-07	UN5113	TRANSISTOR-RESISTOR	4	
IC4420	TVSA0021	IC	1	COABBA000042	QR4750, 51	UN5213	TRANSISTOR-RESISTOR	2	
IC4421	THC4052FT	IC	1						
IC4422	COFBBG000033	IC	1		R4100, 01	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
IC4423	TVSA0021	IC	1	COABBA000042	R4102	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
IC4424	THC4052FT	IC	1		R4103-06	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
IC4425	NJM2100MD	IC	1		R4108	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
IC4426	COFBBG000033	IC	1		R4109, 10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
IC4427	TVHT541FT	IC	1		R4111	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
IC4428	COFBBG000033	IC	1		R4112	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
IC4429	XC62AP5002M	IC	1	COCBADD00005	R4114	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
IC4430, 31	AK5351-VF	A/D CONVERTER	2	COFBAJ000005	R4117	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
IC4600, 01	AK4393VF	IC	2	COFBBK000013	R4119	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC4701	TVHT541FT	IC	1		R4120-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
IC4703	NJM2122M	IC	1		R4125	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
IC4704	THC4052FT	IC	1		R4126	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC4705	TVSA0021	IC	1	COABBA000042	R4127	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
IC4706	NJM2122M	IC	1		R4129-32	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
IC4707	THC4052FT	IC	1		R4133-38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
IC4708	TVSA0021	IC	1	COABBA000042	R4140, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
IC4710	NJM2122M	IC	1		R4142-51	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
IC4711	THC4052FT	IC	1		R4152-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
IC4712	TVSA0021	IC	1	COABBA000042	R4155-57	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
IC4713	NJM2122M	IC	1		R4200	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC4714	THC4052FT	IC	1		R4203	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC4715	TVSA0021	IC	1	COABBA000042	R4204	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
IC4750	TC4W53FU	IC	1		R4205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC4751	TVSA0021	IC	1	COABBA000042	R4206	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
IC4752	THC4052FT	IC	1		R4207-09	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
IC4754	TVSA0021	IC	1	COABBA000042	R4210	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC4755	THC4052FT	IC	1		R4211-13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
IC4756	TVSA0021	IC	1	COABBA000042	R4214, 15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
IC4757	TC4W53FU	IC	1		R4216-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
IC4758	TVSA0021	IC	1	COABBA000042	R4221-24	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	4	

Components identified with the mark Δ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4300	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4301, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R4303	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4304-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R4308-23	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	16	
R4399	ERDS2TJ473	C. RESISTOR 1/4W 47K	1	DOAE473JA045
R4400-03	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R4404-07	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R4408-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R4412-15	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	4	
R4416-19	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R4420	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4421	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4422	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R4423	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R4424	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4425	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4426	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R4427	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R4428	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4429	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4430	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R4431	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R4432	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4433	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4434	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R4435	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R4436	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4437	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4438	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R4439	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4440	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4441	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R4442	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4443	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4444	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R4445	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4446	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4447	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R4448-51	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R4452	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R4453	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R4454	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4455	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R4456	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R4457	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R4458	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4459	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R4460	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R4461	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R4462	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4463	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R4464	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R4465	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R4466	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4467	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R4468	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4469	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4470	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4471	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4472	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4473	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4474	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4475	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4476	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4477	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4478	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R4479	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4480-83	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R4484-87	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R4488-91	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R4492-95	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R4496-99	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R4500-03	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	4	
R4504-07	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4508-15	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	8	
R4516-23	ERJ3RBD331	M. RESISTOR CH 1/16W 330	8	
Δ R4524, 25	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R4526-28	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R4529, 30	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	2	
R4531, 32	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R4533	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4600, 01	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R4602	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4604, 05	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4606-09	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R4610, 11	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	2	
R4612, 13	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R4614-37	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	24	
R4638-41	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R4642-46	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	5	
R4647	ERJ3RBD362	M. RESISTOR CH 1/16W 3.6K	1	
R4648	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R4649	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4650	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R4651	ERJ3RBD362	M. RESISTOR CH 1/16W 3.6K	1	
R4652	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R4653	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4654	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R4655	ERJ3RBD362	M. RESISTOR CH 1/16W 3.6K	1	
R4656	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R4657	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4658	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R4659	ERJ3RBD362	M. RESISTOR CH 1/16W 3.6K	1	
R4660	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R4661	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R4662	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4663	ERJ3RBD241	M. RESISTOR CH 1/16W 240	1	
R4664	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R4665	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4666	ERJ3RBD241	M. RESISTOR CH 1/16W 240	1	
R4667	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R4668	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4669	ERJ3RBD241	M. RESISTOR CH 1/16W 240	1	
R4670	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R4671	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4672	ERJ3RBD241	M. RESISTOR CH 1/16W 240	1	
R4673	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R4674-77	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R4678-81	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	4	
R4682-85	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	4	
R4686-89	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R4690	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4691	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R4692	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R4693	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4694	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R4695	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R4696	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4697	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R4698	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R4699	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R4700	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R4701	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R4702-05	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	4	
R4706-09	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	4	
R4710-13	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	4	
R4714-17	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R4718-21	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	4	
R4750	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4752	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R4753	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R4754-57	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R4758	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4759	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4762	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4765	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4766	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R4769	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4770, 71	ERJ6RBD183	M. RESISTOR CH 1/10W 18K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4772	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4976, 77	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4773	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R4978, 79	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R4774	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1						
R4775, 76	ERJ6RBD183	M. RESISTOR CH 1/10W 18K	2		TG4213-15	EYF6CU	TEST POINT	3	
R4777	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		TG4400	EYF6CU	TEST POINT	1	
R4779	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		TG4602, 03	EYF6CU	TEST POINT	2	
R4780	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		TG4750	EYF6CU	TEST POINT	1	
R4781	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1						
R4782	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1		TP4107-09	EYF6CU	TEST POINT	3	
R4783	ERJ3RBD912	M. RESISTOR CH 1/16W 9.1K	1		TP4401, 02	EYF6CU	TEST POINT	2	
R4784	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		TP4600, 01	EYF6CU	TEST POINT	2	
R4785	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		TP4604-07	EYF6CU	TEST POINT	4	
R4786	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1		TP4751-56	EYF6CU	TEST POINT	6	
R4787	ERJ3RBD912	M. RESISTOR CH 1/16W 9.1K	1						
R4788	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		VR4400-03	VRV0161B103	V. RESISTOR 10K	4	
R4789	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1		VR4600-03	VRV0161B103	V. RESISTOR 10K	4	
R4790	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1						
R4791	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1				MISCELLANEOUS		
R4792	ERJ3RBD912	M. RESISTOR CH 1/16W 9.1K	1						
R4793	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1			VKC0572	P. C. BOARD CATCHER (L)	1	
R4794	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1			VKC0573	P. C. BOARD CATCHER (R)	1	
R4795	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1			XNG3ES	NUT	2	
R4796	ERJ3RBD912	M. RESISTOR CH 1/16W 9.1K	1			XYN3-K8	SCREW	2	
R4797	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1			XYN2-J6	SCREW	2	
R4798	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1						
R4799	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1						
R4800	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1						
R4801	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1						
R4802	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1						
R4803, 04	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		■ E7	VEP84368A	A I/O P. C. BOARD	1	(RTL)
R4805, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2						
R4807	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1						
R4808	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1		C4001	ECA1CHG221	E. CAPACITOR 16V 220U	1	
R4809	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1		C4101, 02	EEVHB1C100	E. CAPACITOR 16V 10U	2	
R4810	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1		C4103, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
R4811	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1		C4105, 06	EEVHB1C100	E. CAPACITOR 16V 10U	2	
R4812	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1		C4107, 08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
R4813-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		C4109, 10	EEVHB1C220	E. CAPACITOR 16V 22U	2	
R4818, 19	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2		C4111-18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
R4820, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		C4119, 20	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	2	
R4822, 23	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2		C4121, 22	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	2	
R4824, 25	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	2		C4123-30	EEVHB1C470	E. CAPACITOR 16V 47U	8	
R4826	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4201, 02	EEVHB1C100	E. CAPACITOR 16V 10U	2	
R4827, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		C4203, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
R4829	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4205, 06	EEVHB1C100	E. CAPACITOR 16V 10U	2	
R4830	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C4207, 08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
R4831-41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	11		C4209, 10	EEVHB1C220	E. CAPACITOR 16V 22U	2	
R4842, 43	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	2		C4211-18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
R4845	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		C4219, 20	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	2	
R4846	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C4221, 22	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	2	
R4847	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		C4223-30	EEVHB1C470	E. CAPACITOR 16V 47U	8	
R4848	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C4300-03	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	4	
R4849-52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4		C4304, 05	EEVHB1A330	E. CAPACITOR 10V 33U	2	
R4904	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4306-09	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	4	
R4905-08	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	4		C4310, 11	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
R4909-13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5		C4312-15	EEVHP1C100	E. CAPACITOR 16V 10U	4	EEVHP1C100R
R4915	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4316-19	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	4	
R4917	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4320-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
R4920-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4		C4326-29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
R4950, 51	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		C4330, 31	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	2	
R4952	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4400-03	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	4	
R4954	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C4404, 05	EEVHB1A330	E. CAPACITOR 10V 33U	2	
R4955	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		C4406-09	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	4	
R4956	ERJ3GEYJ751	M. RESISTOR CH 1/16W 750	1		C4410, 11	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
R4959, 60	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		C4412-15	EEVHP1C100	E. CAPACITOR 16V 10U	4	EEVHP1C100R
R4961	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1		C4416-19	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	4	
R4962, 63	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2		C4420-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
R4964, 65	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2		C4426-29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
R4966, 67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		C4430, 31	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	2	
R4968, 69	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2						
R4970, 71	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		D4300, 01	MA152WA	DIODE	2	
R4972	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1		D4302, 03	MA151WK	DIODE	2	
R4973	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	1		D4304	MA716	DIODE	1	
R4974	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1		D4400, 01	MA152WA	DIODE	2	
R4975	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	1		D4402, 03	MA151WK	DIODE	2	

Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D4404	MA716	DIODE	1		R4322-25	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	4	
					R4326	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
IC4101	TVSA0021	IC	1	COABBA000042	R4327	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
IC4102	NJM4556AM	IC	1		R4328	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
IC4103	TVSA0021	IC	1	COABBA000042	R4329	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
IC4104	NJM4556AM	IC	1		R4330, 31	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
IC4201	TVSA0021	IC	1	COABBA000042	R4332-35	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
IC4202	NJM4556AM	IC	1		R4336	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
IC4203	TVSA0021	IC	1	COABBA000042	R4337	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
IC4204	NJM4556AM	IC	1		R4338	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
IC4300, 01	AQV212SX	IC	2		R4339	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
IC4302, 03	K6G4AKB00004	IC	2		R4340, 41	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
IC4304	XC62AP5002M	IC	1	COCBADD00005	R4342-45	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
IC4305, 06	NJM2122M	IC	2		R4346-49	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
IC4307, 08	TVSA0021	IC	2	COABBA000042	R4350-55	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	6	
IC4309	XC62DN5002M	IC	1		⚠ R4356, 57	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
IC4400, 01	AQV212SX	IC	2		R4358, 59	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
IC4402, 03	K6G4AKB00004	IC	2		R4362, 63	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
IC4404	XC62AP5002M	IC	1	COCBADD00005	R4364, 65	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
IC4405, 06	NJM2122M	IC	2		⚠ R4366-69	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
IC4407, 08	TVSA0021	IC	2	COABBA000042	R4401	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
IC4409	XC62DN5002M	IC	1		R4403	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
					R4404, 05	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	2	
P4101	VJS3421A020	CONNECTOR (FEMALE)	1	K1MN20A00027	⚠ R4406	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
P4102	VJP3600F030K	CONNECTOR (MALE)	1		R4407	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
P4103	VJP1230T	CONNECTOR (MALE)	3P	1	⚠ R4408	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
P4301	VJP3600F030K	CONNECTOR (MALE)	1		R4409	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
P4303	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007	R4412, 13	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
					R4414-21	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	8	
Q4101	2SD602A-R	TRANSISTOR	1		R4422-25	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	4	
Q4102	2SB710A-R	TRANSISTOR	1		R4426	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
Q4103-06	2SD1328	TRANSISTOR	4		R4427	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q4201	2SD602A-R	TRANSISTOR	1		R4428	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
Q4202	2SB710A-R	TRANSISTOR	1		R4429	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q4203-06	2SD1328	TRANSISTOR	4		R4430, 31	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
					R4432-35	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
QR4300-09	UN5213	TRANSISTOR-RESISTOR	10		R4436	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
QR4400-09	UN5213	TRANSISTOR-RESISTOR	10		R4437	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
					R4438	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R4001-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	30		R4439	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
⚠ R4031	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R4440, 41	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R4101, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2		R4442-45	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R4103, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R4446-49	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R4105, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R4450-55	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	6	
R4107, 08	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2		⚠ R4456, 57	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R4109, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2		R4458, 59	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R4111-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8		R4462, 63	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R4119-22	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	4		R4464, 65	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R4123, 24	ERJ3RBD121	M. RESISTOR CH 1/16W 120	2		⚠ R4466-69	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
R4125-28	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	4						
R4131-34	ERJ14YJ220	M. RESISTOR CH 1/4W 22	4		VR4101, 02	EVM7JGA00B52	V. RESISTOR 500	2	
R4135-40	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	6		VR4201, 02	EVM7JGA00B52	V. RESISTOR 500	2	
R4141-44	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4						
R4145, 46	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2						
R4201, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2						
R4203, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2						
R4205, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2						
R4207, 08	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2		■ E8	VEP86313A	SYSCON P. C. BOARD	1	(RTL)
R4209, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2						
R4211-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8						
R4219-22	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	4						
R4223, 24	ERJ3RBD121	M. RESISTOR CH 1/16W 120	2		C1, C2	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
R4225-28	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	4		C3-C5	EEVHB1C470	E. CAPACITOR 16V 47U	3	
R4231-34	ERJ14YJ220	M. RESISTOR CH 1/4W 22	4		C6-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
R4235-40	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	6		C12, 13	EEVHB1C470	E. CAPACITOR 16V 47U	2	
R4241-44	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4		C15, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
R4245, 46	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		C101-06	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
R4301	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		C108-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
R4303	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		C114	EGHU1C104J	P. CAPACITOR 16V 0.1U	1	
R4304, 05	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	2		C115	FIL1E4750006	C. CAPACITOR CH 25V 4.7U	1	
R4306, 07	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2		C116	EEVHB1C470	E. CAPACITOR 16V 47U	1	
⚠ R4308	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C117	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
⚠ R4310	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C118	EEVHB1C470	E. CAPACITOR 16V 47U	1	
R4312, 13	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2		C119-21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
R4314-21	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	8		C201-03	EEVHB1C470	E. CAPACITOR 16V 47U	3	
					C204-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	
C251-55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	5		IC304	TVHT541FT	IC	1		
C256, 57	EEVHB1C100	E. CAPACITOR 16V 10U	2		IC305	TVHC541FT	IC	1		
C301-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	10		IC306	TVHT541FT	IC	1		
C401	VCK0152	C. CAPACITOR	1	FIL1C1060016	IC307	TLCX32FT	IC	1		
C402	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC308	TVHT541FT	IC	1		
C403	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		IC309	TVHC541FT	IC	1		
C404-07	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	4		IC401	COEBE0000074	IC	1		
C408	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		IC403	TC7SH04FU	IC	1		
C409, 10	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2		IC404	TC7W125FU	IC	1		
C411	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		IC405	TVHC123FT	IC	1		
C412, 13	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2		IC406	COEBD0000043	IC	1		
C414	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		IC407	COEBE0000016	IC	1		
C415	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC551	TLCX74FT	IC	1		
C416	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		IC552	TLCX00FT	IC	1		
C417-19	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		IC553, 54	TLCX74FT	IC	2		
C420	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC555	TLCX32FT	IC	1		
C421, 22	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		IC556	TLCX08F	IC	1		
C423	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1		IC557	TLCX32FT	IC	1		
C424	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC558, 59	TLCX245FT	IC	2		
C425	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1		IC602	C1AB00000936	IC	1		
C426-33	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8		IC651	C1AB00000936	IC	1		
C434	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		IC701	TVSA0021	IC	1	COABBA000042	
C435	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		IC702	UPC39362	IC	1		
C436-38	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3		IC703	NJM2068MD	IC	1		
C439, 40	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2							
C441	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		ID201	VVVS13500	SOFTWARE	1		
C501-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4		ID401	VVVS13499	SOFTWARE	1		
C551-59	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	9		ID751	VVVS13501	SOFTWARE	1		
C601	ECUV1H470JCV	C. CAPACITOR CH 50V 47P	1							
C602	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IP201	MBF8TA90PFTS	IC	1		
C603-06	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4		IP401	M32160F4UFP	IC	1		
C607, 08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		IP751	X9144L7T144	IC	1		
C651-53	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3							
C654	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		L1-L3	VL1151A132	COIL	3		
C655	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		L101	VLQ0319K100	COIL	10UH	1	G1C100K00023
C656	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1							
C701-03	VCK0152	C. CAPACITOR	3	FIL1C1060016	P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBGB000002	
C704	EEVHB1C100	E. CAPACITOR 16V 10U	1		P2	VJS3791B020	CONNECTOR (FEMALE)	1		
C705	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		P251	VJS3791B020	CONNECTOR (FEMALE)	1		
C706	VCK0152	C. CAPACITOR	1	FIL1C1060016	P252	VJS3813A013	CONNECTOR (FEMALE)	1		
C707	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1		P401	VJS3791B020	CONNECTOR (FEMALE)	1		
C708	ECUM1H821JCN	C. CAPACITOR CH 50V 820P	1		P751	VJP3125B008	CONNECTOR (MALE)	1		
C709	ECUM1H120JCN	C. CAPACITOR CH 50V 12P	1							
C710	VCK0152	C. CAPACITOR	1	FIL1C1060016	QR401-06	UN5213	TRANSISTOR-RESISTOR	6		
C711-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		QR651	UN5213	TRANSISTOR-RESISTOR	1		
C751-56	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6							
D1-D4	MA701A	DIODE	4		R1-44	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	44	
D101	MA142WA	DIODE	1		R46-51	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	6	
D402-14	MA3J14300L	DIODE	13		R101, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2	
D415	LN1251CAL	DIODE	1		R105, 06	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	2	
D416-18	MA3J14300L	DIODE	3		R107	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
D651-58	MA3J14300L	DIODE	8		R109	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
D701, 02	MA3J14300L	DIODE	2		R110	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K	1	
					R112, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2	
IC1, C2	XC62FP3302P	IC	2		R114	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K	1	
IC3	XC62DN5002P	IC	1		R115, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2	
IC4	XC62FP5002P	IC	1		R117, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	2	
IC101	D7030036C017	IC	1	C2DBJG000006	R119-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	4	
IC102	TVHC14FT	IC	1		R123-25	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	3	
IC103	TVHC32FT	IC	1		R126	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
IC104	TC7SH04FU	IC	1		R127	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	
IC105	TL7705CPSB	IC	1		R130-33	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	4	
IC106, 07	TVHC573FT	IC	2		R136	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
IC109	TVHC04FT	IC	1		R138-45	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	8	
IC110	TVHC139FT	IC	1		R146, 47	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	2	
IC201	IDT71321L55F	IC	1	C3HBCC000002	R148	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	
IC202	STK12C68S45	IC	1		R150-53	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	4	
IC251	DS90LV048A	IC	1		R154-56	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	3	
IC252	SN75C1168NS	IC	1		R157, 58	EXB24V473J	COMBI. R-R	47K	2	
IC253	TVHC541FT	IC	1		R159-61	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	3	
IC254, 55	MB90098A-107	IC	2		R162, 63	EXB24V473J	COMBI. R-R	47K	2	
IC301	TLCX245FT	IC	1		R201	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
IC302	LVX3245QSC	IC	1		R202	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	
IC303	TVHC541FT	IC	1		R204, 05	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	2	
					R206	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R251-55	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5		R609	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R256-60	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5		R610-12	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R263, 64	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R613	EXB24V473J	COMBI. R-R 47K	1	
R270	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R614, 15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R271	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R616	EXB24V103J	COMBI. R-R 10K	1	
R273, 74	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R617	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R276	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R651-54	EXB24V473J	COMBI. R-R 47K	4	
R278-82	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5		R655-58	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R284	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R659, 60	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R288-90	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3		R661-64	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R302	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R665, 66	EXB24V473J	COMBI. R-R 47K	2	
R304	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R667	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R305, 06	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R669	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R307-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9		R670	EXB24V473J	COMBI. R-R 47K	1	
R316-18	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3		R671	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R319, 20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R672	EXB24V473J	COMBI. R-R 47K	1	
R321	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R673	EXB24V103J	COMBI. R-R 10K	1	
R322-26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5		R674, 75	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R328-39	EXB24V473J	COMBI. R-R 47K	12		R676	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R401, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R677-84	EXB24V473J	COMBI. R-R 47K	8	
R403	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R686	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R404, 05	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R701	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R406	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R702	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R408, 09	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R703	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R410	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R704, 05	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R411-19	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	9		R706	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R421	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R707	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R422	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R708	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R423, 24	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R709	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R425	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R710	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R426-34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	9		R711	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R436	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R712	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R437	EXB24V103J	COMBI. R-R 10K	1		R713	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R439-45	EXB24V103J	COMBI. R-R 10K	7		R714	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R447	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R715	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R449	EXB24V103J	COMBI. R-R 10K	1		R716	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R450	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R717, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R451, 52	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R719	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R453-57	EXB24V103J	COMBI. R-R 10K	5		R720	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R458-61	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4		R721	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	1	
R462, 63	EXB24V103J	COMBI. R-R 10K	2		R722	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R464, 65	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R723	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R466	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R724	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R467	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R725	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R468	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R726	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R469, 70	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R727	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R471	EXB24V473J	COMBI. R-R 47K	1		R751	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R472, 73	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R752	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R474	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R753-55	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R475	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R756	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R477	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R757, 58	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R478, 79	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R762	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R480, 81	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R763, 64	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R482	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R765-67	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R483	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R768-79	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	12	
R484-88	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5		R780-83	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R489, 90	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R787, 88	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R491	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R789	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R492, 93	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2						
R494-00	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	7		SW101	VSS0367-08B	SWITCH	1	
R501	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		SW651, 52	VSS0367-04B	SWITCH	2	
R502	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1						
R503, 04	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		TG101, 02	EYF6CU	TEST POINT	2	
R505	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1						
R508-11	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4		TP1-P4	EYF6CU	TEST POINT	4	
R552	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		TP102-08	EYF6CU	TEST POINT	7	
R553	EXB24V473J	COMBI. R-R 47K	1		TP401-06	EYF6CU	TEST POINT	6	
R555-71	EXB24V473J	COMBI. R-R 47K	17						
R573, 74	EXB24V473J	COMBI. R-R 47K	2		X101	VSX1034	CRYSTAL OSCILLATOR	1	H1A2454B0001
R575	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		X401	VSX0641	CRYSTAL OSCILLATOR	1	
R601	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1						
R603	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1				MISCELLANEOUS		
R604, 05	EXB24V473J	COMBI. R-R 47K	2						
R606, 07	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		VK00572	P. C. BOARD CATCHER (L)		1	
R608	EXB24V103J	COMBI. R-R 10K	1		VK00573	P. C. BOARD CATCHER (R)		1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C986-92	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	7		ID500	VVVS13503	SOFTWARE	1	
C993, 94	EEVHB1E330P	E. CAPACITOR 25V 33U	2						
C995	EEVHB1V100	E. CAPACITOR 35V 10U	1		IP100	MN1030F04K	IC	1	
					IP500	X9144L7T100	IC	1	
D200, 01	MA736	DIODE	2						
D202, 03	MA3J14300L	DIODE	2		J1-J4	VJR1094	TERMINAL	4	
D300, 01	MA736	DIODE	2						
D302-05	MA142WK	DIODE	4		L201, 02	VLQ0650M151	COIL 150UH	2	G1C151MA0016
D306-17	MA738	DIODE	12		L203	VLQ0407120M	COIL 12UH	1	GOA120HA0007
D401	MA736	DIODE	1		L301, 02	VLQ0650M151	COIL 150UH	2	G1C151MA0016
D402-05	MA3J14300L	DIODE	4		L303	VLQ0407120M	COIL 12UH	1	GOA120HA0007
D406	MA736	DIODE	1		L600-04	VLFI151A132	COIL	5	
D701	MA3J14300L	DIODE	1		L900	VLQ0319K101	COIL 100UH	1	G1C101K00022
D703	MA738	DIODE	1						
D705	MA142WK	DIODE	1		P500	VJP3125B008	CONNECTOR (MALE)	1	
D706-08	MA142WA	DIODE	3		P600	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
D800-03	MA142WK	DIODE	4		P601	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
D805	MA142WK	DIODE	1		P602	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
D807	MA142WK	DIODE	1		P603	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
D810	MA8030-H	DIODE	1		P604	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
D811-13	MA142WK	DIODE	3		P605	VJP3518B002	CONNECTOR (MALE)	1	
D814-26	MA738	DIODE	13		P606	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
D827-29	NSQ03A04	DIODE	3	BOJCE000013	P607	VJS3801B010	CONNECTOR (FEMALE)	1	
D900	MA142K	DIODE	1		P608	VJP3518B002	CONNECTOR (MALE)	1	
D901	MAZ30750HL	DIODE	1		P609	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
D950, 51	MA147	DIODE	2		P610	VJP3518B003	CONNECTOR (MALE)	1	
D954, 55	MA142K	DIODE	2		P611	VJP3518B002	CONNECTOR (MALE)	1	
D956	MA147	DIODE	1		P612	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
D958	MA147	DIODE	1		P613	VJS3406B015	CONNECTOR (FEMALE)	1	
					P614, 15	VJS3813C017	CONNECTOR (FEMALE)	2	K1MN17B00012
IC101	TC7W126F	IC	1		P616	VJS3406B019	CONNECTOR (FEMALE)	1	
IC102	S80829ANUP	IC	1		P617	VJP1233T	CONNECTOR (MALE) 6P	1	
IC103, 04	TC7SHU04FU	IC	2		P618	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
IC106	TC75W54FU	IC	1		P619	VJS3826A040	CONNECTOR (FEMALE)	1	
IC107, 08	TVHC14FT	IC	2		P620	VJS3826A020	CONNECTOR (FEMALE)	1	
IC110	XC62FP3302P	IC	1		P621	VJS3826A040	CONNECTOR (FEMALE)	1	
IC201	TA75W393FU	IC	1		P622	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
IC202, 03	TB6519F	IC	2	COGBY0000011	P623	VJP1230T	CONNECTOR (MALE) 3P	1	
IC206	TC75W54FU	IC	1		P624	VJP3518B003	CONNECTOR (MALE)	1	
IC207	TA75W393FU	IC	1						
IC208	TC75W54FU	IC	1		Q200	2SD1820A-R	TRANSISTOR	1	
IC209	TA75W393FU	IC	1		Q201	2SB1219A-R	TRANSISTOR	1	
IC212	TC7W126F	IC	1		Q202	2SD1820A-R	TRANSISTOR	1	
IC213	TVS1129	IC	1	COJBAZ000525	Q203	2SB1219A-R	TRANSISTOR	1	
IC301	TL1451CDB	IC	1		Q204-07	2SD1819A-R	TRANSISTOR	4	
IC302	TA75W393FU	IC	1		Q208	HAT1024R	TRANSISTOR	1	
IC303, 04	TB6519F	IC	2	COGBY0000011	Q209	2SB1073-R	TRANSISTOR	1	
IC305	TC7W126F	IC	1		Q210	2SD1119-R	TRANSISTOR	1	
IC401, 02	TA75W393FU	IC	2		Q211	2SB1073-R	TRANSISTOR	1	
IC403	TC75W54FU	IC	1		Q212	2SD1119-R	TRANSISTOR	1	
IC406, 07	UPC4558G2	IC	2	COABBB000131	Q213	2SB1073-R	TRANSISTOR	1	
IC408-10	TC75W54FU	IC	3		Q214	2SD1119-R	TRANSISTOR	1	
IC501	TVHC14FT	IC	1		Q215	2SB1073-R	TRANSISTOR	1	
IC502, 03	TVS1129	IC	2	COJBAZ000525	Q216	2SD1119-R	TRANSISTOR	1	
IC701	TA75W393FU	IC	1		Q217	2SB1073-R	TRANSISTOR	1	
IC703	TA75W393FU	IC	1		Q218	2SD1119-R	TRANSISTOR	1	
IC704	TC7SH08FU	IC	1		Q219	2SB1073-R	TRANSISTOR	1	
IC803	MC14538BF	IC	1	COJBAM000009	Q220	2SD1119-R	TRANSISTOR	1	
IC807	NJM2904M	IC	1		Q300	2SD1820A-R	TRANSISTOR	1	
IC808	MC14538BF	IC	1	COJBAM000009	Q301	2SB1219A-R	TRANSISTOR	1	
IC900	TVHT244FT	IC	1		Q302	2SD1820A-R	TRANSISTOR	1	
IC901, 02	M54649L	IC	2	COGAH0000001	Q303	2SB1219A-R	TRANSISTOR	1	
IC903	NJM062V	IC	1		Q304	2SB710A-R	TRANSISTOR	1	
IC950	TVHC14FT	IC	1		Q305	2SB1073-R	TRANSISTOR	1	
IC951	NJM4580ED	IC	1	COABBB000123	Q306	2SD1119-R	TRANSISTOR	1	
IC952	NJM062V	IC	1		Q307	2SB1073-R	TRANSISTOR	1	
IC953, 54	OP177GS	IC	2		Q308	2SD1119-R	TRANSISTOR	1	
IC955	NJM4580ED	IC	1	COABBB000123	Q309	2SB1073-R	TRANSISTOR	1	
IC956	TC4W53FU	IC	1		Q310	2SD1119-R	TRANSISTOR	1	
IC957	LTC16601GN	IC	1	COFBBF000026	Q311	2SB710A-R	TRANSISTOR	1	
IC958	NJM062V	IC	1		Q312	2SB1073-R	TRANSISTOR	1	
IC959	AD633JR	IC	1	COZBZ0000158	Q313	2SD1119-R	TRANSISTOR	1	
IC960	NJM062V	IC	1		Q314	2SB1073-R	TRANSISTOR	1	
					Q315	2SD1119-R	TRANSISTOR	1	
ID100	VVVS13502	SOFTWARE	1		Q316	2SB1073-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q317	2SD1119-R	TRANSISTOR	1		R131	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
Q318	HAT1024R	TRANSISTOR	1		R133	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q401	2SB1219A-R	TRANSISTOR	1		R136	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
Q700, 01	2SD1819A-R	TRANSISTOR	2		R137	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q702	2SB1073-R	TRANSISTOR	1		R138-40	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
Q703	2SD1624-S	TRANSISTOR	1		R141	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	
Q800	2SD1819A-R	TRANSISTOR	1		R142-48	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	7	
Q801	2SB936A-Q	TRANSISTOR	1		R149-51	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
Q802	2SD1819A-R	TRANSISTOR	1		R152-54	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
Q803	2SB1219A-R	TRANSISTOR	1		R155	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
Q804	2SD1819A-R	TRANSISTOR	1		R156, 57	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
Q805	2SB1219A-R	TRANSISTOR	1		R158-64	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	7	
Q806	2SD1819A-R	TRANSISTOR	1		R165	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
Q807	2SB1219A-R	TRANSISTOR	1		R167-70	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
Q808	2SB1073-R	TRANSISTOR	1		R171-77	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	7	
Q809	2SD1624-S	TRANSISTOR	1		R178, 79	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
Q810	2SB1073-R	TRANSISTOR	1		R180-86	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	7	
Q811	2SD1624-S	TRANSISTOR	1		R200, 01	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
Q812	2SB1073-R	TRANSISTOR	1		R202, 03	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
Q813	2SD1624-S	TRANSISTOR	1		R204, 05	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
Q814	2SB1073-R	TRANSISTOR	1		R208	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q815	2SD1624-S	TRANSISTOR	1		R209	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
Q816	2SB1073-R	TRANSISTOR	1		R210	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q817	2SD1624-S	TRANSISTOR	1		R211	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
Q818	2SB1073-R	TRANSISTOR	1		R212	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q819	2SD1624-S	TRANSISTOR	1		R213	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
Q820	2SD1819A-R	TRANSISTOR	1		R214	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
Q821	2SB1219A-R	TRANSISTOR	1		R215	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
Q822	2SD1819A-R	TRANSISTOR	1		R216	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q823	2SB1219A-R	TRANSISTOR	1		R217	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
Q824	2SD1819A-R	TRANSISTOR	1		R218	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
Q825	2SB1219A-R	TRANSISTOR	1		R219	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
Q950	2SD601A-R	TRANSISTOR	1		R220	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
Q951, 52	2SB709A-R	TRANSISTOR	2		R221	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
Q953	2SD601A-R	TRANSISTOR	1		R222	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
Q954	2SB709A-R	TRANSISTOR	1		R223	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
Q955	2SD601A-R	TRANSISTOR	1		R224	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
					R225	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
QR100	UN5214	TRANSISTOR-RESISTOR	1		R226, 27	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
QR200, 01	UN5213	TRANSISTOR-RESISTOR	2		R228	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
QR300, 01	UN5111	TRANSISTOR-RESISTOR	2		R229	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
QR702	UN5114	TRANSISTOR-RESISTOR	1		R230, 31	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
QR703	UN5214	TRANSISTOR-RESISTOR	1		R232-34	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	3	
QR705	UN5214	TRANSISTOR-RESISTOR	1		R235	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
QR800	UN5214	TRANSISTOR-RESISTOR	1		R238	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
QR803	UN5214	TRANSISTOR-RESISTOR	1		R239	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
QR804	UN5213	TRANSISTOR-RESISTOR	1		R240, 41	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
QR805	UN5214	TRANSISTOR-RESISTOR	1		R242-44	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	3	
QR806	UN5213	TRANSISTOR-RESISTOR	1		R245	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
QR807-15	UN5214	TRANSISTOR-RESISTOR	9		R246, 47	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
QR816-21	UN5114	TRANSISTOR-RESISTOR	6		R248	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
QR950	UN5213	TRANSISTOR-RESISTOR	1		R249	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
QR951	UN5113	TRANSISTOR-RESISTOR	1		R250	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
QR952	UN5215	TRANSISTOR-RESISTOR	1		R251	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
QR953	UN5115	TRANSISTOR-RESISTOR	1		R252	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
					R253	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R1	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R254	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R2, R3	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R255	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R4	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1		R256-58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R5	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1		R259	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R6	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R260	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R7, R8	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R261	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R10, 11	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2		R262	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R12	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R263	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R101	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1		R264	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R102-16	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	15		R265	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R117	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R266	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R118	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R267	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R119	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R268	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R120, 21	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R269	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R122, 23	ERJ6RBD473	M. RESISTOR CH 1/10W 47K	2		R270	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R124, 25	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2		R271	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R126-28	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3		R272	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R129	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R273	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R130	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1		R274	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R275	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R418	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R276	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R421	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R277	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R422	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R278, 79	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	2		R426	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R280	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R427	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R281	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R428	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R282	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R431	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R283, 84	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2		R432	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R285, 86	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R436	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R287, 88	K5H1623A0001	FUSE	2		R437	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R300	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R438	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R301	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		R441, 42	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R302	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R443	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R303	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R444	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R304	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		R445	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R305	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R448	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
R308, 09	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2		R449	ERJ6RBD682	M. RESISTOR CH 1/10W 6.8K	1	
R310, 11	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2		R451	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R312	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R461	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R313	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		R468, 69	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R315	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R470	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R316	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R471	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R317	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R472, 73	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R318	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R474	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R319	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		R475, 76	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R320	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R477, 78	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R321	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R479	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R322	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R480	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R323	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R502	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R324	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R503, 04	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R325	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		R505	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R326	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R506-08	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	3	
R327	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R509	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R328	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R514	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R329	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		R515	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R330	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R516-19	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R331	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R520	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R332	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R521-28	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	8	
R333, 34	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R533-38	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	6	
R335	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R539	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R336	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R548, 49	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R337	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R559	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R338	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R563	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R339-41	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	3		R593	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R342	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R603	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R343	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R604-06	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R344	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R607-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R345	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		R700	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R346-48	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	3		R704	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R349, 50	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	2		R705	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R351, 52	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R706	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R353	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R708	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R354	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R709	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R355	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R710	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R356	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R711	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R357-59	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	3		R712, 13	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R360	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R714	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R361	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R715	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R362	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R716, 17	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	2	
R363	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		R718	ERJ8GEYJ300	M. RESISTOR CH 1/8W 30	1	
R364-66	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	3		R719	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R367, 68	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	2		R720	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R369, 70	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2		R722	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R380, 81	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	2		R723	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R382	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R724	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R383, 84	K5H1623A0001	FUSE	2		R725	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R401	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R726	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R727-30	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	4	
R406	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R731-34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R407	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R735	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R408	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R736	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R411	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R737, 38	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	2	
R412	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R739	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R416	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R740	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R417	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R741	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	

Components identified with the mark Δ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R742	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R967	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R743	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R968	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R744, 45	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R969, 70	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	2	
R746	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R971, 72	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R749	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R973, 74	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	2	
R751	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R975	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R752	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1		R976	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R753	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R977, 78	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R754	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R979	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R800	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R980	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R802	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1		R981	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R803	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1		R982	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R805-07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R983	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R812	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R984	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R813	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R986	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R814	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R987	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R815, 16	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2		R988	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R817	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R989, 90	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	
R818	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R994	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R819-21	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		R995	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R822	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R996	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R823-25	ERJ6GEYJ681	M. RESISTOR CH 1/10W 680	3		R997-00	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R826	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1		R1001	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R827, 28	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R1003	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R829, 30	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	2		R1004	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R831, 32	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R1005	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R833, 34	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	2		R1006-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R835, 36	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2						
R837	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1		TG300	EYF6CU	TEST POINT	1	
R838	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		TG500	EYF6CU	TEST POINT	1	
R839, 40	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2						
R841, 42	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		TP200-03	EYF6CU	TEST POINT	4	
R843, 44	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		TP301-04	EYF6CU	TEST POINT	4	
R845, 46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		TP400, 01	EYF6CU	TEST POINT	2	
R847, 48	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		TP950	EYF6CU	TEST POINT	1	
R849	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R850-61	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	12		VR401	EVM7JGA00B54	V. RESISTOR 50K	1	
R862	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		VR402	EVM7JGA00B24	V. RESISTOR 20K	1	
R863, 64	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		VR503, 04	VRV0303B203A	V. RESISTOR 20K	2	D3EC3203A002
R865, 66	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2						
R867, 68	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		X100	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005
R869, 70	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2						
R871, 72	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2						
R873	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R874	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1						
R875	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R876	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R877, 78	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	2		■ E10	VEP81203B	POWER 1 P.C. BOARD	1	(RTL)
R879	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		■	VEP81224A	POWER SUB P.C. BOARD	1	FOR VEP81203B
R880	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R881, 82	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	2						
R883	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		△ C1001	ECQU2A224MV	P. CAPACITOR 100V 0.22U	1	
R884	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		△ C1002, 03	VCK0260M102A	C. CAPACITOR 1000P	2	F1BAH1020010
R885	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1		△ C1004	ECQU2A224MV	P. CAPACITOR 100V 0.22U	1	
R886-93	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	8		△ C1005	VCK0262M222A	C. CAPACITOR 2200P	1	F1BAH2220002
R900	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C1006	EEUFC1H101	E. CAPACITOR 50V 100U	1	
R901	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		C1007	ECUM1H104KBM	C. CAPACITOR CH 50V 0.1U	1	
R902	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C1010	VCK0106K221	C. CAPACITOR 220P	1	
R903	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1		C1013	ECEG2WB151DB	E. CAPACITOR 450V 150U	1	
R904, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		C1014	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
R906	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		C1015	ECQE2W105KC	P. CAPACITOR 450V 1U	1	
R907	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		△ C1016	ECQU2A154MV	P. CAPACITOR 100V 0.15U	1	
R908	ERJ6GEYJ271	M. RESISTOR CH 1/10W 270	1		C1017	ECQF6222JZ	P. CAPACITOR 630V 2200P	1	
R909	ERJ6GEYJ222	M. RESISTOR CH 1/10W 2.2K	1		C1102	ECKD2H103PU	C. CAPACITOR 500V 0.01U	1	
R950-53	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4		C1103	EEUFC1J470	E. CAPACITOR 6.3V 47P	1	
R954, 55	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2		C1106	ECKD2H221KB	C. CAPACITOR 500V 220P	1	
R956	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1		C1107	EEUFC1J470	E. CAPACITOR 6.3V 47P	1	
R957	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		C1108	EEUFC1E182	E. CAPACITOR 25V 1800U	1	
R958, 59	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		C1110	ECUM1H104KBM	C. CAPACITOR CH 50V 0.1U	1	
R960	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		C1111-13	EEUFC1E182	E. CAPACITOR 25V 1800U	3	
R961, 62	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		C1114, 15	ECUM1H104KBM	C. CAPACITOR CH 50V 0.1U	2	
R963	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		C1118	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
R964	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C1901	ECA1HXL100	E. CAPACITOR 50V 10U	1	FOR VEP81224A
R965	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1		C1902	ECUM1H104KBM	C. CAPACITOR CH 50V 0.1U	1	FOR VEP81224A
R966	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1		C1903	ECUM1H221JCN	C. CAPACITOR CH 50V 220P	1	FOR VEP81224A
					C1904	ECQV1H684JL	P. CAPACITOR 50V 0.68U	1	FOR VEP81224A

Components identified with the mark Δ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1905	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	FOR VEP81224A
C1906	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	FOR VEP81224A
C1908	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	FOR VEP81224A
C1909	ECA1HXL010	E. CAPACITOR 50V 1U	1	FOR VEP81224A
C1910	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1	FOR VEP81224A
C1912	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	FOR VEP81224A
C1913	ECUX1H682KBN	C. CAPACITOR CH 50V 6800P	1	FOR VEP81224A
C1914	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	FOR VEP81224A
C1915	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	FOR VEP81224A
C1916	ECUM1H104KBN	C. CAPACITOR CH 50V 0.1U	1	FOR VEP81224A
C1917	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	FOR VEP81224A
C1921, 22	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	FOR VEP81224A
C1923	ECUM1H104KBN	C. CAPACITOR CH 50V 0.1U	1	FOR VEP81224A
C1924	ECUM1H820JCN	C. CAPACITOR CH 50V 82P	1	FOR VEP81224A
D1001	SFPL-52	DIODE	1	
D1002	RBV606	DIODE	1	
D1003, 04	SFPL-52	DIODE	2	
D1005	FML-626S	DIODE	1	
D1006-09	MA3100-M	DIODE	4	
D1101	MA3270-M	DIODE	1	
D1103	SFPL-52	DIODE	1	
D1104	AP01C	DIODE	1	BOHADV000010
D1105	SFPL-52	DIODE	1	
D1106	D20LC20U	DIODE	1	BOHBSM000021
D1107	U16U44	DIODE	1	
D1108	SFPL-52	DIODE	1	
D1109	MA3200-M	DIODE	1	
D1110, 11	MA152K	DIODE	2	
D1112	MA3068-M	DIODE	1	
D1901, 02	MA3200-M	DIODE	2	FOR VEP81224A
D1903	MA3100-M	DIODE	1	FOR VEP81224A
D1904	MA152K	DIODE	1	FOR VEP81224A
D1905	MA152WA	DIODE	1	FOR VEP81224A
D1906	MA3270-M	DIODE	1	FOR VEP81224A
D1907	MA3051-M	DIODE	1	FOR VEP81224A
D1908	MA3068-M	DIODE	1	FOR VEP81224A
D1911	MA3068-M	DIODE	1	FOR VEP81224A
D1914	MA152K	DIODE	1	FOR VEP81224A
Δ F1001	VSF0246	FUSE	1	
IC1101	AN1431M	IC	1	
IC1901	M51951BL	IC	1	COEAH0000030 FOR VEP81224A
IC1902	MC33262P	IC	1	CODAZZ000013 FOR VEP81224A
IC1903	FA5311BP	IC	1	CODAAZ000002 FOR VEP81224A
J1002	VWJ0121	CABLE	1	
J1004	VWJ0121	CABLE	1	
J1101, 02	VWJ0121	CABLE	2	
L1002	VLQ0861	COIL	1	
Δ L1003, 04	ELF20N015A	COIL	2	
L1007	VLP0083	COIL	1	JOJKB0000011
L1101, 02	VLP0083	COIL	2	JOJKB0000011
L1106-08	VLP0336	FERRITE CORE	3	
Δ P1001	VJP2073	CONNECTOR (MALE)	1	
P1002, 03	VJP3878	CONNECTOR (MALE)	2	K1KA02B00137
P1004, 05	VJP3042G003W	CONNECTOR (MALE)	2	K1KA03A00157
P1006	VJP3042G017W	CONNECTOR (MALE)	1	K1KA17A00011
P1007	VJP1149	CONNECTOR (MALE)	1	K1KA03B00084
P1101	VJP4033	CONNECTOR (MALE)	1	K1KA06A00162
P1901, 02	VJS3042B003W	CONNECTOR (FEMALE)	2	K1KB03B00007
P1903	VJS3042B017W	CONNECTOR (FEMALE)	17P	K1KB17B00005
Δ PC1101, 02	PS2561L1V1WL	TRANSISTOR	2	B3QAZ0000030
Q1001	AC08FGM	DIODE	1	B2BAJR000001
Q1002	2SK1941-01R	TRANSISTOR	1	
Δ Q1101	2SK2677-4112	TRANSISTOR	1	B1BAGU000002
Q1102	2SD601A-R	TRANSISTOR	1	
Q1103	2SB709A-R	TRANSISTOR	1	
Q1901	XN1501	TRANSISTOR-RESISTOR	1	FOR VEP81224A
Q1903	2SJ278	TRANSISTOR	1	FOR VEP81224A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR1901	UN2111	TRANSISTOR-RESISTOR	1	FOR VEP81224A
QR1902	UN2213	TRANSISTOR-RESISTOR	1	FOR VEP81224A
QR1904	UN2213	TRANSISTOR-RESISTOR	1	FOR VEP81224A
QR1905	UN2113	TRANSISTOR-RESISTOR	1	FOR VEP81224A
QR1906	UN2112	TRANSISTOR-RESISTOR	1	FOR VEP81224A
QR1907	UN2213	TRANSISTOR-RESISTOR	1	FOR VEP81224A
Δ R1001	ERC12AGM334	S. RESISTOR 1/2W 330K	1	
R1002-05	ERJ12YJ473	M. RESISTOR CH 1/2W 47K	4	
R1006	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
Δ R1007	ERU5TEJ100	F. RESISTOR 5W 10	1	
R1009	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	1	
R1010, 11	ERJ12YJ101H	M. RESISTOR CH 1/2W 100	2	
R1012	ERJ66EYG104	M. RESISTOR CH 1/10W 100K	1	
R1013	ERX2SJR22	M. RESISTOR 2W 0.22	1	
R1014	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R1017	ERG2SJ220	M. RESISTOR 2W 22	1	
R1018	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R1019	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1	
R1020	ERJ6RED470	M. RESISTOR CH 1/10W 47	1	
R1021	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	1	
R1023	ERJ12YJ101H	M. RESISTOR CH 1/2W 100	1	
R1024	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	1	
R1025	ERJ66EYF123	M. RESISTOR CH 1/10W 12K	1	
R1026	ERJ66EYF472	M. RESISTOR CH 1/10W 4.7K	1	
R1101	ERJ66EYF473	M. RESISTOR CH 1/10W 47K	1	
R1102	ERX2SJR33	M. RESISTOR 2W 0.33	1	
R1104	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	1	
R1105	ERJ12YJ680	M. RESISTOR CH 1/2W 68	1	ERJ12YJ680U
R1108	ERG2SJ104	M. RESISTOR 2W 100K	1	
R1109	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	1	
R1110	ERJ66EYG154	M. RESISTOR CH 1/10W 150K	1	
R1111	ERJ66EYG221	M. RESISTOR CH 1/10W 220	1	
R1112	ERJ66EYG681	M. RESISTOR CH 1/10W 680	1	
R1114	ERJ66EYJ100	M. RESISTOR CH 1/10W 10	1	
R1115, 16	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	2	
R1117	ERJ6RBD622	M. RESISTOR CH 1/10W 6.2K	1	
R1118	ERJ6RBD122	M. RESISTOR CH 1/10W 1.2K	1	
R1119, 20	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	2	
R1121	ERJ66EYG681	M. RESISTOR CH 1/10W 680	1	
R1122	ERJ66EYG392	M. RESISTOR CH 1/10W 3.9K	1	
R1123	ERJ66EYG682	M. RESISTOR CH 1/10W 6.8K	1	
R1124	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	1	
R1125	ERJ66EYJ334	M. RESISTOR CH 1/10W 330K	1	
R1127	ERG2SJ104	M. RESISTOR 2W 100K	1	
R1901, 02	ERJ12YJ154	M. RESISTOR CH 1/2W 150K	2	FOR VEP81224A
R1903	ERJ66EYF473	M. RESISTOR CH 1/10W 47K	1	FOR VEP81224A
R1904	ERJ66EYG104	M. RESISTOR CH 1/10W 100K	1	FOR VEP81224A
R1905-07	ERJ12YJ154	M. RESISTOR CH 1/2W 150K	3	FOR VEP81224A
R1908	ERJ66EYG223	M. RESISTOR CH 1/10W 22K	1	FOR VEP81224A
R1909	ERJ66EYF473	M. RESISTOR CH 1/10W 47K	1	FOR VEP81224A
R1910	ERJ66EYG224	M. RESISTOR CH 1/10W 220K	1	FOR VEP81224A
R1911	ERJ66EYF822	M. RESISTOR CH 1/10W 8.2K	1	FOR VEP81224A
R1912, 13	ERJ14YJ474	M. RESISTOR CH 1/4W 470K	2	FOR VEP81224A
R1915	ERJ66EYF473	M. RESISTOR CH 1/10W 47K	1	FOR VEP81224A
R1916	ERJ66EYG101	M. RESISTOR CH 1/10W 100	1	FOR VEP81224A
R1917	ERJ66EYG470	M. RESISTOR CH 1/10W 47	1	FOR VEP81224A
R1919	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	1	FOR VEP81224A
R1920, 21	ERJ12YJ104	M. RESISTOR CH 1/2W 100K	2	ERJ12YJ104U FOR VEP81224A
R1923	ERJ66EYJ225	M. RESISTOR CH 1/10W 2.2M	1	FOR VEP81224A
R1925	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1	FOR VEP81224A
R1926-28	ER050CHD1503	M. RESISTOR 150K	3	FOR VEP81224A
R1930	ERJ66EYG222	M. RESISTOR CH 1/10W 2.2K	1	FOR VEP81224A
R1931-33	ERJ12YJ224	M. RESISTOR CH 1/2W 220K	3	FOR VEP81224A
R1934	ERJ66EYG912	M. RESISTOR CH 1/10W 9.1K	1	FOR VEP81224A
R1935	ERJ66EYF561	M. RESISTOR CH 1/10W 560	1	FOR VEP81224A
R1936	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	1	FOR VEP81224A
R1938	ERJ66EYG221	M. RESISTOR CH 1/10W 220	1	FOR VEP81224A
R1944-46	ERJ12YJ224	M. RESISTOR CH 1/2W 220K	3	FOR VEP81224A
R1949, 50	ERJ66EYG104	M. RESISTOR CH 1/10W 100K	2	FOR VEP81224A
Δ R1951	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	FOR VEP81224A
R1953	ERJ66EYG102	M. RESISTOR CH 1/10W 1K	1	FOR VEP81224A
Δ T1101	G4D2C0000005	TRANSFORMER	1	

Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
					C1404	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
TH1101	VRT0142	THERMISTOR	1	D4DD83310005	C1405, 06	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	2	
					C1411	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
TP1101	VJR0646	TEST POINT	1	DOX0R0000022	C1412, 13	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
					C1414	VCEA1ASC4R7M	E. CAPACITOR 10V 4.7U	1	F2D1A4R70002
		MISCELLANEOUS			C1415-17	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	3	
					C1418, 19	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
A	VMZ0074	INSULATION COVER	1		C1420, 21	VCEA1AAP221	E. CAPACITOR 10V 220U	2	F2D1A2210001
	VMZ2187	INSULATION COVER	1		C1422, 23	VCEA1AAP101	E. CAPACITOR 10V 100U	2	
	VMZ1608	CAPACITOR TUBE	1		C1424, 25	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
	VMP5282	TRANSISTOR CLIP	1		C1427	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1	
	VSC4861	HEAT SINK (C)	1		C1801	ECA1HXS2R2	E. CAPACITOR 50V 2.2U	1	
	VSC4860	HEAT SINK (B)	1		C1802	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
	VMZ0965	CAPACITOR COVER	2		C1803	ECA1HXS2R2	E. CAPACITOR 50V 2.2U	1	
	VSC3434	SHIELD CASE	1		C1804	VCEA1CSC3R3M	E. CAPACITOR 16V 3.3U	1	
	XYN3+F8	SCREW	4		C1805	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
	XTV3+8G	SCREW	1		C1806	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
	VMP5283	EARTH LUG	2		C1807	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
	XYN3+F6	SCREW	2		C1808	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
	VMZ2908	HEAT SINK	2		C1811	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
	VMZ2969	HEAT SINK	1		C1814, 15	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
	XYN3+K8	SCREW	4		C1816, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
					C1818	VCEA1AAP101	E. CAPACITOR 10V 100U	1	
					C1819	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
					C1820	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
					C1821	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
					C1822	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
■ E11	VEP81219A	POWER 2 P.C. BOARD	1	(RTL)	C1823	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
					C1824	VCEA1AAP101	E. CAPACITOR 10V 100U	1	
C1201-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		D1201	YSD0129	DIODE	1	
C1204	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1		D1202	SF20SC3L	DIODE	1	BOJBSD000010
C1206	ECA1HXS100	E. CAPACITOR 50V 10U	1		D1203	MA142WK	DIODE	1	
C1207	ECQV1H684JL	P. CAPACITOR 50V 0.68U	1		D1204	MA142WA	DIODE	1	
C1208, 09	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		D1205	MA3100-M	DIODE	1	
C1211	VCEA1DSP680	E. CAPACITOR 20V 68U	1		D1206	MA142K	DIODE	1	
C1212	ECA1HXS2R2	E. CAPACITOR 50V 2.2U	1		D1208	MA3200-M	DIODE	1	
C1213	VCEA1DAP680	E. CAPACITOR 20V 68U	1		D1209	MA8068-M	DIODE	1	
C1214, 15	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		D1211	SFPB-54	DIODE	1	BOJCMC000002
C1301	ECA1HHGR33	E. CAPACITOR 50V 0.33U	1		D1212	MA142K	DIODE	1	
C1302	ECA1HHGR22	E. CAPACITOR 50V 0.22U	1		D1213	MA8100-M	DIODE	1	
C1303, 04	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		D1214	MA142WK	DIODE	1	
C1305	ECA1HXS2R2	E. CAPACITOR 50V 2.2U	1		D1215	MA3051-H	DIODE	1	
C1306	VCEA1CSC3R3M	E. CAPACITOR 16V 3.3U	1		D1216	MA142K	DIODE	1	
C1307	ECA1HHGR22	E. CAPACITOR 50V 0.22U	1		D1301	MA152K	DIODE	1	
C1308	VCEA1CSC3R3M	E. CAPACITOR 16V 3.3U	1		D1302-06	MA142K	DIODE	5	
C1309	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		D1308	SFPB-54	DIODE	1	BOJCMC000002
C1310	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1		D1309-11	DE5SC4M-4061	DIODE	3	
C1311	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1		D1312, 13	MA142K	DIODE	2	
C1312	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1		D1314	MA8180-M	DIODE	1	
C1313	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1		D1315	MA142K	DIODE	1	
C1314	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		D1316	MA8180-M	DIODE	1	
C1316, 17	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2		D1317	MA142K	DIODE	1	
C1318, 19	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		D1318	MA8120-M	DIODE	1	
C1325	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		D1319	MA142K	DIODE	1	
C1326, 27	VCEA1DAP680	E. CAPACITOR 20V 68U	2		D1320	MA8180-M	DIODE	1	
C1328, 29	VCEA1DSP680	E. CAPACITOR 20V 68U	2		D1321	MA142K	DIODE	1	
C1330-33	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4		D1322	MA142WA	DIODE	1	
C1335	VCEA1DAP680	E. CAPACITOR 20V 68U	1		D1323	MA142K	DIODE	1	
C1336	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		D1324	MA152K	DIODE	1	
C1337	VCEA1AAP221	E. CAPACITOR 10V 220U	1	F2D1A2210001	D1402, 03	MA142WK	DIODE	2	
C1338	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1		D1404, 05	SFPB-76V	DIODE	2	
C1339	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		D1406, 07	MA8068-MH	DIODE	2	
C1340	VCEA1DAP680	E. CAPACITOR 20V 68U	1		D1408	MA142WA	DIODE	1	
C1341	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		D1409	MA142WK	DIODE	1	
C1342	VCEA1AAP101	E. CAPACITOR 10V 100U	1		D1801	MA142K	DIODE	1	
C1344	VCEA1DAP680	E. CAPACITOR 20V 68U	1		D1802	MA8180-M	DIODE	1	
C1345	VCEA1DAP101	E. CAPACITOR 20V 100U	1		D1803	MA142K	DIODE	1	
C1346	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		D1804	MA8120-M	DIODE	1	
C1347, 48	VCEA1DAP680	E. CAPACITOR 20V 68U	2		D1805	MA142K	DIODE	1	
C1352, 53	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	2		D1806	MA142WA	DIODE	1	
C1354	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1		D1807	MA152K	DIODE	1	
C1401	ECUM1E683KBN	C. CAPACITOR CH 25V 0.068U	1		D1808, 09	MA142K	DIODE	2	
C1402	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		D1810, 11	DE5SC4M-4061	DIODE	2	
C1403	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1						

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Δ F1201	XBA1C100NB5	FUSE	1	K5D103AQ0001	QR1304, 05	UN5112	TRANSISTOR-RESISTOR	2	
					QR1306-08	UN5211	TRANSISTOR-RESISTOR	3	
IC1201	NJM2903M	IC	1		QR1309, 10	UN5113	TRANSISTOR-RESISTOR	2	
IC1203	UPC1093J	IC	1	C0DAEMC00002	QR1801	UN5113	TRANSISTOR-RESISTOR	1	
IC1301, 02	BA9743AFV	IC	2		QR1802	UN5112	TRANSISTOR-RESISTOR	1	
IC1401	C0DBAZB00006	IC	1		QR1803	UN5211	TRANSISTOR-RESISTOR	1	
IC1801	BA9743AFV	IC	1		QR1804	UN5112	TRANSISTOR-RESISTOR	1	
					QR1805	UN5211	TRANSISTOR-RESISTOR	1	
L1301, 02	VLQ0655K100	COIL 10UH	2						
L1303, 04	VLP0352	FERRITE CORE	2		R1201	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Δ L1305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R1202-05	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
L1306	VLP0352	FERRITE CORE	1		R1207	ERJ3RBD243	M. RESISTOR CH 1/16W 24K	1	
L1307	VLQ0859M220	COIL 22UH	1		R1208	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
L1308	VLQ0859M221	COIL 220U	1		Δ R1209	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
Δ L1309	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R1210	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
L1310	VLQ0859M221	COIL 220U	1		R1211	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
L1311	VLQ0655K220	COIL 22UH	1		R1212	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
Δ L1312	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R1213	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
L1313	VLQ0441K220	COIL 22UH	1		R1215	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
L1314, 15	VLQ0655K220	COIL 22UH	2		R1217	ERJ6GEYJ473	M. RESISTOR CH 1/10W 4.7K	1	
Δ L1316	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R1220, 21	ERJ6GEYJ473	M. RESISTOR CH 1/10W 4.7K	2	
L1317	JK0KC0000009	FILTER	1		R1222	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
L1401-04	VLP0352	FERRITE CORE	4		R1223	ERJ6GEYJ473	M. RESISTOR CH 1/10W 4.7K	1	
L1405, 06	VLQ0441K1R0	COIL 1.0UH	2		R1224	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
L1407	VLQ0859M100	COIL 10U	1		R1225	ERJ3RBD513	M. RESISTOR CH 1/16W 51K	1	
L1408	VLQ0859M220	COIL 22UH	1		Δ R1227, 28	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
L1409	VLQ0655M3R3	COIL 3.3U	1		R1229	VRE0222J33M	M. RESISTOR	1	
L1410	VLQ0655K100	COIL 10UH	1		R1230	VRE0222J10M	M. RESISTOR	1	
L1801	VLQ0655K100	COIL 10UH	1		R1231, 32	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	2	
L1802, 03	VLP0352	FERRITE CORE	2		R1233, 34	ERJ6GEYJ182	M. RESISTOR CH 1/10W 1.8K	2	
L1804	VLQ0784331	COIL	1		R1235	ERJ6GEYJ332	M. RESISTOR CH 1/10W 3.3K	1	
Δ L1805	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R1236, 37	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
L1806	VLQ0859M221	COIL 220U	1		R1238, 39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
L1807, 08	VLQ0441K220	COIL 22UH	2		R1240	ERJ6GEYJ332	M. RESISTOR CH 1/10W 3.3K	1	
Δ L1809	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		R1241	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
					R1242	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
P1201	VJP4033	CONNECTOR (MALE)	1	K1KA06A00162	R1243	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
P1202	VJP3957A002	CONNECTOR (MALE)	1	K1KA02A00169	R1244	ERJ6GEYJ220	M. RESISTOR CH 1/10W 22	1	
P1203	VJP4232B030	CONNECTOR (MALE)	1	K1KA30B000031	R1248	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
P1204	VJP1596T	CONNECTOR (MALE)	1		R1249	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
P1205	VJP1230T	CONNECTOR (MALE) 3P	1		Δ R1252	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
					R1303-06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
Q1201, 02	XN1213	TRANSISTOR-RESISTOR	2		R1307, 08	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
Q1203	XN4601	TRANSISTOR-RESISTOR	1		R1309-12	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	4	
Q1204-07	2SJ280L	TRANSISTOR	4	B1DGJG000002	R1313, 14	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
Q1208, 09	XN4401	TRANSISTOR-RESISTOR	2		R1315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q1210	XN4501	TRANSISTOR-RESISTOR	1		R1316	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
Q1211, 12	2SD1819A-R	TRANSISTOR	2		R1317	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q1301, 02	XN4501	TRANSISTOR-RESISTOR	2		R1318	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
Q1303, 04	2SD1819A-R	TRANSISTOR	2		R1319, 20	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	
Q1306, 07	2SD1819A-R	TRANSISTOR	2		R1321	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q1308	2SD1820A-R	TRANSISTOR	1		R1322	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
Q1309-12	XN4401	TRANSISTOR-RESISTOR	4		R1323	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
Q1313	2SJ279S	TRANSISTOR	1		R1324, 25	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	2	
Q1314	2SJ214S	TRANSISTOR	1		R1326	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
Q1315	2SJ279S	TRANSISTOR	1		R1327-29	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
Q1316, 17	2SK1748-Z	TRANSISTOR	2		Δ R1330	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
Q1318, 19	2SD1819A-R	TRANSISTOR	2		R1331	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
Q1401-04	B1DFFD000006	FET	4		R1332, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
Q1801	2SD1819A-R	TRANSISTOR	1		R1334	ERJ6GEYJ222	M. RESISTOR CH 1/10W 2.2K	1	
Q1802	XN4501	TRANSISTOR-RESISTOR	1		R1335	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
Q1803	2SD1819A-R	TRANSISTOR	1		R1336	ERJ6GEYJ222	M. RESISTOR CH 1/10W 2.2K	1	
Q1805	2SD1819A-R	TRANSISTOR	1		R1338	ERJ6GEYJ222	M. RESISTOR CH 1/10W 2.2K	1	
Q1807, 08	XN4401	TRANSISTOR-RESISTOR	2		R1339, 40	ERJ6GEYJ473	M. RESISTOR CH 1/10W 4.7K	2	
Q1809, 10	2SJ279S	TRANSISTOR	2		R1341	ERJ6GEYJ222	M. RESISTOR CH 1/10W 2.2K	1	
					R1342	ERJ6GEYJ473	M. RESISTOR CH 1/10W 4.7K	1	
QR1201	UN5213	TRANSISTOR-RESISTOR	1		R1344	VRE0202H18	M. RESISTOR CH 0.18	1	
QR1202	UN5211	TRANSISTOR-RESISTOR	1		R1345, 46	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	2	
QR1203	UN5113	TRANSISTOR-RESISTOR	1		R1347	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
QR1204	UN5212	TRANSISTOR-RESISTOR	1		R1348	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
QR1207	UN5212	TRANSISTOR-RESISTOR	1		R1349	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
QR1208	UN5113	TRANSISTOR-RESISTOR	1		R1350, 51	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	2	
QR1210, 11	UN5211	TRANSISTOR-RESISTOR	2		R1352	VRE0202HR10	M. RESISTOR CH 1	1	
QR1301, 02	UN5112	TRANSISTOR-RESISTOR	2		R1355	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
QR1303	UN5211	TRANSISTOR-RESISTOR	1		R1357, 58	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1359	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		TP1301-06	EYF6CU	TEST POINT	6	
R1360	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		TP1401, 02	EYF6CU	TEST POINT	2	
R1364, 65	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	2		TP1801, 02	EYF6CU	TEST POINT	2	
R1366	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1						
R1368	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1				MISCELLANEOUS		
R1371	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1						
R1372	ERJ6RBD273	M. RESISTOR CH 1/10W 27K	1			EYF52BC	FUSE HOLDER	2	
R1373	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1			VJR1008	EARTH LUG	4	
R1374, 75	ERJ6RBD911	M. RESISTOR CH 1/10W 910	2			VSC4859	HEAT SINK (A)	1	
R1376	ERJ6RED150	M. RESISTOR CH 1/10W 15	1			XYN3+8	SCREW	1	
R1377	ERJ6RBD563	M. RESISTOR CH 1/10W 56K	1			XYN3+8	SCREW	1	
R1378, 79	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2						
R1380	ERJ6RBD822	M. RESISTOR CH 1/10W 8.2K	1						
R1381	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	1						
R1382	ERJ6RBD111	M. RESISTOR CH 1/10W 110	1						
R1383	ERJ6RBD362	M. RESISTOR CH 1/10W 3.6K	1						
R1384, 85	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		■ E12	VEP81217A	POWER 3 P.C. BOARD	1	(RTL)
R1386, 87	ERJ6GEYG121	M. RESISTOR CH 1/10W 120	2						
R1388	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1						
R1390	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1						
R1392	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1		C1502	VCEA1AAP101	E. CAPACITOR 10V 100U	1	
R1393	ERJ6RBD751	M. RESISTOR CH 1/10W 750	1		C1503	ECOA1JHG471B	E. CAPACITOR 6.3V 470U	1	
R1394	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1		C1504	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1	
R1395	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1		C1505	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
Δ R1403	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C1506	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
R1404	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		C1507	EEUFC1V561SE	E. CAPACITOR 35V 560U	1	
R1405	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C1508	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
R1407, 08	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	2		C1509, 10	ECA1CHG472	E. CAPACITOR 16V 4700U	2	
R1409, 10	ERJ6RBD122	M. RESISTOR CH 1/10W 1.2K	2		C1601-03	ECA1HXS2R2	E. CAPACITOR 50V 2.2U	3	
R1416	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1		C1607, 08	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	2	
R1417, 18	VRE0202H12	M. RESISTOR CH 0.12	2		C1609, 10	VCEA1CSC3R3M	E. CAPACITOR 16V 3.3U	2	
R1419, 20	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2		C1611	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
R1421	ERJ6RBD432	M. RESISTOR CH 1/10W 4.3K	1		C1612	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
R1422	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1		C1614	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
R1423, 24	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		C1615	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
R1425	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1		C1616, 17	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
Δ R1427	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C1618-20	VCEA1DAP680	E. CAPACITOR 20V 68U	3	
R1801, 02	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		C1621	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
R1803, 04	ERJ6GEYG121	M. RESISTOR CH 1/10W 120	2		C1622	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
R1805, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		C1623	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
R1807-10	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	4		C1626	EEUFC1A391	E. CAPACITOR 10V 390U	1	
R1812	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C1628	VCEA1AAP680	E. CAPACITOR 10V 68U	1	F2D1A6800003
R1813	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1		C1629	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
R1814	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1		C1631	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
R1815	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1		C1632	EEUFC1A391	E. CAPACITOR 10V 390U	1	
R1817	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1		C1633	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
R1818	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1		C1634	EEUFC1C271	E. CAPACITOR 16V 270U	1	
R1819	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		C1635	VCEA1AAP101	E. CAPACITOR 10V 100U	1	
R1820	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1		C1636	EEUFC1C271	E. CAPACITOR 16V 270U	1	
Δ R1821	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C1637, 38	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	2	
R1822	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C1701	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
Δ R1823	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C1702	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
R1824, 25	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2		C1703	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
R1828	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1		C1704	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
R1829	ERJ6GEYJ150	M. RESISTOR CH 1/10W 15	1		C1705, 06	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
R1830, 31	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	2		C1708	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
R1832	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		C1711	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
R1833	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		C1712, 13	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
R1834	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		C1714	VCEA1ASC4R7M	E. CAPACITOR 10V 4.7U	1	F2D1A4R70002
R1835	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		C1715-17	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	3	
R1838, 39	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		C1718, 19	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
R1843	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	1		C1720, 21	VCEA1AAP221	E. CAPACITOR 10V 220U	2	F2D1A2210001
R1844	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1		C1722, 23	ECA1AHG331	E. CAPACITOR 10V 330U	2	
R1845	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1		C1724, 25	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
R1846	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1						
R1847	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1						
R1848	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1		D1501	MA3051-H	DIODE	1	
R1849	ERJ6RBD101	M. RESISTOR CH 1/10W 100	1		D1502, 03	MA115	DIODE	2	
R1850	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1		D1504	MA3270-M	DIODE	1	
					D1505	NS003A04	DIODE	1	BOJCP000013
					D1506	MA3062M	DIODE	1	
					D1507	MA142K	DIODE	1	
T1301	VLTO925	TRANSFORMER	1	G4ZZ00000377	D1601, 02	MA142WK	DIODE	2	
					D1603-05	DE5SC4M-4061	DIODE	3	
Δ TH1205	VRT0148050	THERMISTOR	1	D4ZZ00000006	D1606	MA142K	DIODE	1	
TH1206	VRT0143	THERMISTOR	1		D1607	MA8036-MH	DIODE	1	
					D1608	MA8068-MH	DIODE	1	

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D1609	MA8027-H	DIODE	1		R1616-18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
D1610	MA142WK	DIODE	1		Δ R1619, 20	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
D1611	MA142K	DIODE	1		R1622	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
D1702, 03	MA142WK	DIODE	2		R1623	ERJ6RBD751	M. RESISTOR CH 1/10W 750	1	
D1704, 05	SFPB-76V	DIODE	2		R1624	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	
D1706	MA8068-MH	DIODE	1		R1625	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
D1707	MA8047-H	DIODE	1		R1626-28	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	3	
D1708	MA142WA	DIODE	1		R1629, 30	ERJ6GEYJ221	M. RESISTOR CH 1/10W 220	2	
D1709	MA142WK	DIODE	1		R1631-33	ERJ6GEYJ332	M. RESISTOR CH 1/10W 3.3K	3	
D1710-13	MA152K	DIODE	4		R1634, 35	VRE0202HR22	M. RESISTOR CH 0.22	2	
					R1636	VRE0202H68M	M. RESISTOR CH 0.68	1	
IC1501	NJM2904M	IC	1		R1637	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
IC1601, 02	BA9743AFV	IC	2		R1638	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
IC1701	CODBAZB00006	IC	1		R1639	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
					R1640	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
L1501	VLQ0655K220	COIL 22UH	1		R1641	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
L1601	VLQ0859M470	COIL 47U	1		R1642	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
L1602	VLQ0859M220	COIL 22UH	1		R1643, 44	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
L1603	VLQ0784471	COIL	1		R1645	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1	
L1604, 05	VLQ0655K220	COIL 22UH	2		R1646	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
L1606	VLQ0441K220	COIL 22UH	1		R1647, 48	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	2	
L1607-09	VLP0145	COIL	3		R1652	ERJ6RBD822	M. RESISTOR CH 1/10W 8.2K	1	
L1610, 11	VLQ0441K220	COIL 22UH	2		R1653	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1	
L1701-04	VLP0352	FERRITE CORE	4		R1654	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
L1705, 06	VLQ0655K100	COIL 10UH	2		R1655	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1	
L1707	GOA180H00001	COIL 18UH	1		R1656	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
L1708	GOA100H00001	COIL 10UH	1		R1658	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
L1709	VLQ0655K220	COIL 22UH	1		R1659, 60	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	2	
L1710	VLQ0655M3R3	COIL 3.3U	1		R1661, 62	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
					R1663	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
P1501	VJP3926A024	CONNECTOR (MALE)	1		R1664, 65	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
P1502	VJP1233T	CONNECTOR (MALE)	6P		R1666	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
					R1667, 68	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
Q1501	2SD601A-R	TRANSISTOR	1		R1669	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
Q1502	2SC3074Y	TRANSISTOR	1		R1671	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
Q1503	2SB936A-Q	TRANSISTOR	1		R1675	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
Q1504	2SD1819A-R	TRANSISTOR	1		Δ R1703	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
Q1601	2SD1819A-R	TRANSISTOR	1		R1704, 05	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	
Q1602	XN4501	TRANSISTOR-RESISTOR	1		R1707	ERJ6RBD473	M. RESISTOR CH 1/10W 47K	1	
Q1603	2SD1820A-R	TRANSISTOR	1		R1708	ERJ6RBD563	M. RESISTOR CH 1/10W 56K	1	
Q1604	2SB1219A-R	TRANSISTOR	1		R1709	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1	
Q1605	2SD1820A-R	TRANSISTOR	1		R1710	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
Q1606	2SB1219A-R	TRANSISTOR	1		R1716	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
Q1607	2SD1820A-R	TRANSISTOR	1		R1717	VRE0202H10	M. RESISTOR CH 1	1	
Q1608	2SB1219A-R	TRANSISTOR	1		R1718	VRE0202H22M	M. RESISTOR CH 0.22	1	
Q1609-11	XN4401	TRANSISTOR-RESISTOR	3		R1719-22	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	4	
Q1612-14	2SJ279S	TRANSISTOR	3		R1723, 24	ERJ6RBD183	M. RESISTOR CH 1/10W 18K	2	
Q1615-19	2SD1819A-R	TRANSISTOR	5		R1725, 26	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
Q1701-04	B1DFFD000006	FET	4		R1727	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1	
					R1728	ERJ6RBD182	M. RESISTOR CH 1/10W 1.8K	1	
					R1729-32	ERJ6GEYJ270	M. RESISTOR CH 1/10W 27	4	
QR1601-03	UN5112	TRANSISTOR-RESISTOR	3						
QR1604-06	UN5211	TRANSISTOR-RESISTOR	3		T1501	VLTO889	TRANSFORMER	1	64ZZ00000368
QR1607	UN5113	TRANSISTOR-RESISTOR	1						
					TP1601-04	VJR0098	TEST POINT	4	
R1501	ERJ6GEYJ222	M. RESISTOR CH 1/10W 2.2K	1		TP1701, 02	VJR0098	TEST POINT	2	
R1502, 03	ERJ6GEYJ221	M. RESISTOR CH 1/10W 220	2						
R1504, 05	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2		VR1602, 03	EVMEASAO0B53	V. RESISTOR 5K	2	
R1506	ERJ6GEYJ392	M. RESISTOR CH 1/10W 3.9K	1						
Δ R1507	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1				MISCELLANEOUS		
R1508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R1509	ERJ6GEYJ680	M. RESISTOR CH 1/10W 68	1						
R1510-12	ERJ6GEYJ681	M. RESISTOR CH 1/10W 680	3			VJR1008	EARTH LUG	2	
R1513	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			VGFO788	DUSTPROOF BARRIER (C)	1	
R1601	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1			VMP5861	P. C. B. HOLDER ANGLE (L)	1	
R1602	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1			VMP5862	P. C. BOARD FIX ANGLE (R)	1	
R1603	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1			XTV3+6F	SCREW	2	
R1604	ERJ3GEYJ243	M. RESISTOR CH 1/16W 24K	1			VKC0295	BOARD SPACER	1	
R1605, 06	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	2						
R1607	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1						
R1608	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1						
R1609	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1						
R1610	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1						
R1611	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		\blacksquare E13	VEP80A88A	POWER CONNECT P. C. BOARD	1	(RTL)
R1612	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1						
R1613-15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3						

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P1, P2	VJS4033	CONNECTOR (FEMALE)	2	K1KB06B00023	R65042, 43	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
					R65044	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
					R65045	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
					R65046	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
					R65047	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
					R65048	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
■ E14	VEP80B80A	MOTHER P. C. BOARD	1	(RTL)	R65049	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
					R65050	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
					R65051	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
P101	VJS4232A030	CONNECTOR (FEMALE)	1	K1KB30A00003	R65052	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
P102	VJP3926A024	CONNECTOR (MALE)	1		R65053	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
P103-06	VJP4168A008	CONNECTOR (MALE)	4	K1KA08A00204	R65054	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
P201-06	VJS4064N160E	CONNECTOR (FEMALE)	6	K1KAG0A00006	R65055	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
P207	VJS4064K140E	CONNECTOR (FEMALE)	1	K1KAE0A00007	R65056	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
P301, 02	VJS3600F030K	CONNECTOR (FEMALE)	2		R65057	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
P401, 02	VJS3791D040	CONNECTOR (FEMALE)	2	K1MN40B00003	R65058	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
P403	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048	R65059, 60	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
		MISCELLANEOUS			R65061	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
					R65062	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
	VJR1008	EARTH LUG	6		R65063-65	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	3	
	VKC0295	BOARD SPACER	2		R65066-72	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	7	
					R65073	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
					R65074-77	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	4	
					R65078	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
					R65079	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
					R65080	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
					R65081	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
■ E15	VEP86309A	FRONT P. C. BOARD	1	(RTL)	R65082	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
					R65083	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
					R65084-86	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	3	
C65001, 02	ECUM1H121JCN	C. CAPACITOR CH 50V 120P	2		Δ R65087	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
C65003, 04	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2		R65101	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	
C65005	ECEA1AKS221	E. CAPACITOR 10V 220U	1		R65102	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
C65006	ECEA1CKS330	E. CAPACITOR 16V 33U	1		R65103	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	
C65007	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		R65104	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
C65010, 11	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	2		R65105	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	
					R65106	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
D65001	MA701A	DIODE	1		R65107	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	
D65002-04	MA153	DIODE	3		R65108-15	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	8	
D65005-08	MA152K	DIODE	4		R65117	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	
D65101	LN38GCPP	LED	1		R65118-22	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	5	
D65103	LN38GCPP	LED	1		R65123	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
D65105	MA152K	DIODE	1						
D65107	LN38GCPP	LED	1		SW65102	EVQGS307K	SWITCH	1	
D65108	MA152K	DIODE	1		SW65104	VSS0250	SWITCH	1	KOD112A00104
D65109	LN38GCPP	LED	1		SW65105	EVQGS307K	SWITCH	1	
D65110-14	MA152K	DIODE	5		SW65106	VSS0249	SWITCH	1	KOD113A000050
D65115	LN38GCPP	LED	1		SW65107, 0	EVQGS307K	SWITCH	2	
					SW65109	VSS0249	SWITCH	1	KOD113A000050
DP65001	VSL0489	DISPLAY	1	A2BA00000191					
IC65001	MN1382-R	IC	1		VR65003	EVJYMOF15C23	V. RESISTOR	2K	1
IC65002	UPD75236J040	IC	1	C2ABFC000026	X65001	VXS0140	CRYSTAL OSCILLATOR		1
J65001	VJJ0571	JACK	1				MISCELLANEOUS		
L65001, 02	VLQ0319K101	COIL 100UH	2	G1C101K00022		VJF1360	DISPLAY HOLDER	1	
P65001	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048		VGQ0458	SPACER	5	
P65103	VJS4243B018	CONNECTOR (FEMALE)	1	K1MN18B00032					
Q65001-03	2SB710A-R	TRANSISTOR	3						
Q65101-12	2SD601A-R	TRANSISTOR	12						
QR65001-0	MUN2213	TRANSISTOR-RESISTOR	3		■ E16	VEP83540A	V JACK P. C. BOARD	1	(RTL)
R65009	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1						
R65010-13	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	4		C101, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
R65014, 15	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2		C103, 04	ECA1CX5470	E. CAPACITOR 16V 47U	2	
R65016	ERJ6GEYG471	M. RESISTOR CH 1/10W 470	1		C105, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
Δ R65017	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1		C107	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
R65018-26	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	9		C108, 09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
Δ R65027, 28	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2		C110	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
R65029	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1		C111, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
R65030-37	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	8		C113	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
					C114, 15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	

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C116	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1		J207, 08	VJS3417	CONNECTOR (FEMALE)	2	K1AB103A0007
D101	MA716	DIODE	1		L201	VLP0145	COIL	1	
D102	MA3068-M	DIODE	1		L203	VLP0145	COIL	1	
D103	MA3J14300L	DIODE	1		L205, 06	VLP0145	COIL	2	
D104	MA142K	DIODE	1		L208	VLP0145	COIL	1	
D105	MA3068-M	DIODE	1		L210	VLP0145	COIL	1	
IC101	NJM78L05UA	IC	1	COCBADC00010	L212	VLP0145	COIL	1	
IC102	NJM79L05UA	IC	1		L214, 15	VLP0145	COIL	2	
					L217	VLP0145	COIL	1	
J101, 02	VJS3901	CONNECTOR (FEMALE)	2	K1CB204H0004	L219, 20	VLP0145	COIL	2	
J103	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002	L222	VLP0145	COIL	1	
J104	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004	L224, 25	VLP0145	COIL	2	
					L227	VLP0145	COIL	1	
L101-05	VLP0145	COIL	5		L229-31	VLP0145	COIL	3	
L110	VLP0145	COIL	1		L233	VLP0145	COIL	1	
					L235, 36	VLP0145	COIL	2	
P101	VJS3421A020	CONNECTOR (FEMALE)	1	K1MN20A00027	L238	VLP0145	COIL	1	
P102	K1MN13A00011	CONNECTOR	1		L240	VLP0145	COIL	1	
P103	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016					
Q101	2SB1218A-R	TRANSISTOR	1		P201	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
Q102	XN4501	TRANSISTOR-RESISTOR	1						
Q103	XN4601	TRANSISTOR-RESISTOR	1						
Q104	2SB1218A-R	TRANSISTOR	1						
Q105	XN4501	TRANSISTOR-RESISTOR	1						
Δ R102	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		■ E18	VEP86281A	KEY P. C. BOARD	1	(RTL)
Δ R104	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1						
R105	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		D65106	MA152K	DIODE	1	
R106	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		D65201-07	MA152K	DIODE	7	
R107	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1						
R108	ERJ6RED750	M.RESISTOR CH 1/10W 75	1		P65201	VJS2582B018	CONNECTOR (FEMALE)	1	K1MN18B00028
R109	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1						
R110	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R65201-06	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	6	
R111, 12	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2		R65207	ERJ14YJ181	M.RESISTOR CH 1/4W 180	1	ERJ14YJ181U
R113	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1						
R114	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1		SW65103	VST0331	SWITCH	1	K0C112B00006
R115	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		SW65201	VSP0853A000	SWITCH	1	K0F111A00235
R116	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		SW65202	VSP0792	SWITCH	1	K0F111A00280
R117	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		SW65203	VSP0788	SWITCH	1	K0F111A00277
R118	ERJ6RED750	M.RESISTOR CH 1/10W 75	1		SW65204	VSP0791	SWITCH	1	K0F111A00279
R119	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		SW65205	VSP0790	SWITCH	1	K0F111A00278
R120	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		SW65206	VSP0793	SWITCH	1	K0F111A00281
R121	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		SW65207	VSP0789	SWITCH	1	K0F111A00283
R122	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1						
R123	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1						
R124	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1						
R125	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1						
R126	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		■ E19	VEP86282A	REC VR P. C. BOARD	1	(RTL)
R127, 28	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2						
R129	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1						
R130	ERJ6RED750	M.RESISTOR CH 1/10W 75	1		P65401	VJP1610T	CONNECTOR (MALE)	1	
SW101	VSS0307	SWITCH	1	K0D122A00105	VR65401, 0	EVU023003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS					MISCELLANEOUS		
	VMP6733	D SUB HOLDER ANGLE	1			VEE0E69	REC VR CABLE	1	
	VXQ0102	SCREW	2	K1YE50000008					
■ E17	VEP84369B	A JACK P. C. BOARD	1	(RTL)	■ E20	VEP86283A	PB VR P. C. BOARD	1	(RTL)
C201-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4		P65301	VJP1611T	CONNECTOR (MALE)	1	K1KA07B00032
C229-32	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4						
					VR65301, 0	EVU023006B14	V.RESISTOR 10K	2	
J201, 02	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003			MISCELLANEOUS		
J203, 04	VJS3417	CONNECTOR (FEMALE)	2	K1AB103A0007					
J205, 06	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003		VEE0E70	PB VR CABLE	1	

